Biol. Chem., Vol. 384, pp. 1643–1646, December 2003 · Copyright © by Walter de Gruyter · Berlin · New York

Author Index

Abrahamson, M. 281
Abrescia, P. 1593
Achilles, K. 817
Adachi, M. 1483
Adachi, O. 1451
Adelfalk, C. 169, 1501
Aguzzi, A. 1279
Ahn, Y.S. 143
Al-Awqati, Q. 1255
Alba, M.P. 71
Alberto, F. 1333
Albertson, D. 257
Al-Fakhri, N. 423
Allgayer, H. 755
Amoresano, A. 1165
Andrade, S.A. 489
Anelli, T. 1273
Anemüller, S. 1565
Angermayr, M. 1287
Anton, M. 737
Arenz, C. 1293
Arlt, M.J.E. 1515
Arndt, M. 657
Arrigo, A.-P. 589
Ascione, A. 139
Assfalg-Machleidt, I. 395, 1085, 1109
Attenberger, M. 1597
Aust, S. 1553
Authié, E. 921

Baba, A. 911
Bachrati, C.Z. 1155
Baici, A. 1007
Bailey, C.J. 1543
Ballmer-Hofer, K. 1435
Bandlow, W. 1287
Banke, I.J. 1515
Bär, J. 1553
Barca, S. 139
Barresi, V. 321
Barrett, A.J. 873,1613
Barroso-delJesus, A. 343
Bartnik, E. 891
Bartsch, J. 657
Bartsch, M. 1321
Bauer, D. 763
Bauer, H. 463
Bdeir, K. 229
Becher, B. 1133
Becker, C. 825
Becker, K. 463, 551
Beck-Sickinger, A.G. 1619
Bednarski, P.J. 817
Beernink, P.T. 1463
Benazzi, L. 575
Benge, A. 1073
Bergemann, C. 737
Berger, R.G. 1049
Bermejo, E. 1333
Bermúdez, A. 1443
Bernhardt, R. 1473
Bervar, A. 447
Berzal-Herranz, A. 343
Besch, R. 311
Betat, H. 1497
Beyersmann, D. 161
Bhalla, S. 117
Bhatt, A.S. 257
Bhoola, K.D. 1311
Bi, X. 1195
Biemans, B.A.M. 729
Billson, J. 1239
Binder, S.W. 597
Bisswanger, H. 673
Bjarnadottir, M. 281
Blankenstein, P. 1063
Blyszczuk, P. 1391
Bobryshev, Y.V. 423
Bode, W. 863
Bohn, A. 721
Bohrmann, B. 1227
Boissel, J.-P. 351
Böl, G.-F. 609
Bölke, B. 1133
Boland, W. 437
Bondzio, A. 1063
Bonin, H. 117
Bonomi, F. 1473
Borgmeyer, U. 473
Bornkamm, G.W. 635
Bösze, S. 409
Boulangé, A. 921
Bouvier, M. 117
Braungart, E. 311
Bredebusch, I. 1133
Breinbauer, R. 1265
Brielmeier, M. 635
Brigelius-Flohé, R. 11, 609
Brodbeck, U. 1575
Brömme, D. 891
Brown, D.A. 1259
Bubert, B. 125
Buchczyk, D.P. 237
Budde, H. 619, 1305
Buijs, R.M. 697
Bukowska, A. 657
Burk, R.F. 681
Bütikofer, P. 1575
Büttner, F.H. 891

Caffrey, C.R. 1613
Caldelas, I. 711
Campisi, G. 965
Canadi, J. 1435
Carter, W. 1613
Carvalheira, J.B.C. 151
Caughey, G.H. 1527
Cereda, A. 1473
Challet, E. 711
Chapman, H.A. 1527
Chavakis, T. 229, 423
Chen, Z. 1215
Cherian, S.M. 423
Cherpi-Antar, C. 1029
Chu, F.-F. 597
Chudzinski-Tavassi, A.M. 489, 1333
Cianfriglia, M. 139
Cifuentes, G. 1443
Cigliano, L. 1593
Cimerman, N. 305
Claes, I. 1247
Clark, R. 1133
Clausen, T. 373
Colombo, P. 1165
Comini, M. 653
Condorelli, D.F. 321
Conrad, M. 635
Costa, M.A. 1165
Coy, D. 403
Craik, C.S. 257
Cross, M. 1391
Csik, G. 409
Csucs, G. 1007
Cui, P. 1483
Curcic, M. 1227
Czyz, J. 1391

Da'dara, A. 83
Daan, S. 729
Dandekar, T. 899
Darley-Usmar, V.M. 527
Daubenberger, C.A. 1227
David, F. 965
David, R. 1619
de Oliveira, C. 939
Degitz, K. 311
Deluca, D. 395
Demuth, H.-U. 403, 1553, 1583
Deslys, J.-P. 243
Di Gennaro, S. 295
Di Maro, A. 295
Diaz, D. 1227
Dickinson, D.A. 527
Dimopoulos, N. 463
Dithmar, H. 997
Dodt, J. 1327
Dolenc, I. 317
Dora, H. 1035
Dormont, D. 243
Doroshow, J.H. 597
Douwes, K. 311
Drainas, D. 457
Dringen, R. 505
Dufresne, M.J. 1421
Dulinski, R. 929
Dupuis, M.L. 139
Duro, G. 1165
Dyson, M.R. 363
Dzugaj, A. 51

Ebel, J. 437
Ebert, W. 281
Edalat, M. 645
Edwards, D.R. 1515
Eisenhaber, F. 977
Eling, W. 1227
Elmquist, A. 387
Elrod, K.C. 1605
Eschrich, K. 51
Esworthy, R.S. 597

Fagioli, C. 1273
Falus, A. 409
Famulok, M. 1497
Faria, F. 1333
Farisei, F. 295
Farkas, A. 945
Faust, J. 657
Felici, F. 139
Felix, S.B. 763
Feng, Y.-M. 805
Ferlinz, K. 1293
Ferranti, P. 295, 1473
Ferris, C.D. 681
Feucht, W. 997
Feuerstein, T.J. 351
Fiorino, F. 395
Fischer, G. 125
Flachmeier, C. 763
Flaig, M.J. 311
Flatt, P.R. 1543
Flego, M. 139
Fliegmann, J. 437
Flohé, L. 575, 619, 653, 1305
Folli, F. 151
Fong, W.P. 289
Forlani, F. 1473
Forman, H.J. 527
Förster, H.-H. 1497
Förstermann, U. 351, 1343
Frébort, I. 1451
Friedhoff, P. 1533
Friedrich, P. 945
Fuchs, T. 755
Fujiwara, N. 567

Gansbacher, B. 1515
Gasa, S. 1035
Gastpar, R. 267
Gauczynski, S. 791
Gault, V.A. 1543
Gauthier, F. 921
Gellerich, F. 1597
Gelling, R. 403
Genieser, H.-G. 1321
Geraci, D. 1165

Gerdes, H.-H. 175
Gerhartz, B. 1553
Gerullis, D. 161
Gil-Parrado, S. 395, 951
Ginzinger, D. 257
Gleiter, S. 247
Gödtel-Armbrust, U. 351
Golderer, G. 1057
Goldmann, T. 1133
Goldring, M.B. 1007
Götte, O. 1597
Götz, M.G. 1613
Grad, I. 59
Graff, C. 711
Grasser, K.D. 1019
Grebe, M. 105
Green, B.D. 1543
Greer, B. 1543
Gregory, P. 1575
Gröbner, P. 1057
Groenink, J. 183
Gross, C. 267
Grötzinger, J. 1203
Gruden, K. 305
Gruel, Y. 1029
Grune, T. 237
Grunewald, I. 763
Gryboś, M. 1103
Guevara-Lora, I. 929
Guo, Z.-Y. 805
Gutensohn, W. 483
Guzmán, F. 1443

Hacker, J. 125
Hagemann, S. 899
Hahn, M. 1533
Hahn, U. 1497
Haïk, S. 243
Hansch, D. 267
Hansell, E. 1613
Hantke, B. 1247
Hapke, S. 1073, 1119
Harbeck, N. 1247
Harding, J.J. 1185
Harriott, P. 1543
Harris, J.R. 825
Hashimoto, M. 911
Hashimoto, Y. 657
Hatano, K.-i. 93, 1173
Hayashi, Y. 883
He, F. 19
Hecht, H.-J. 619
Heere, P. 763
Heidinger, M. 951
Helbig, J.H. 125
Henklein, P. 39
Henningsson, F. 1527
Henrich, V.C. 105
Hentschke, M. 473
Heppner, F.L. 1279
Hewelt, A. 763
Hewitt, E. 1239
Hickson, I.D. 1155
Hilgenfeld, R. 125
Hill, K.E. 681
Hiller, O. 1247
Hilliker, A. 463
Himeno, K. 883
Hinderlich, S. 721
Hinke, S.A. 403
Hirashima, Y. 749
Hirota, S. 1451
Hirrlinger, J. 505
Hirsch-Kauffmann, M. 169, 1501
Hoehe, M.R. 763
Hoffmann, D. 1109
Hoffmann, T. 1553, 1583
Hoffmann, T.F. 1311
Hofinger, A. 493
Höfler, H. 1073
Hofmann, B. 619, 1305
Holzhütter, H.-G. 39
Honke, K. 567
Hou, W.-S. 891
Hsiao, W.L.W 1147
Hsu, C.Y. 143
Huang, B. 423
Hubé, F. 1029
Huber, R. 373
Hubmacher, D. 1565
Hudecz, F. 409
Hundt, C. 791
Hütt, M.-T. 721
Hutter, G. 1279
Hutzler, P. 1073
Huwiler, A. 1379

Iametti, S. 1473
Igaz, P. 409
Iida, K. 219
Iles, K.E. 527
Imamura, T. 929
Iochmann, S. 1029
Irwin, N. 1543
Ishii, Y. 991
Iwersen, M. 1035
Izzo, V. 1165

Jäckle, H. 463
Jacobs, E. 125
Jaenicke, R. 1463
James, K.E. 1613
Jane, D.T. 1421
Jastorff, B. 1321
Jaussi, R. 1435
Jeleń, M. 1103
Jiang, G. 1299, 1429
Jiricny, J. 1155
Jochum, M. 951
Jösch, C. 213
Juliano, M.A. 489
Jung, M. 777
Jurrmann, N. 609

Kadowaki, T. 911
Kähne, T. 657
Kaiser, F. 721
Kalsbeek, A. 697
Katunuma, N. 447, 883, 911
Katz, N. 423
Keller Sarmiento, M.I. 1333
Kelly, J.M. 517
Kempkes, B. 483
Kessler, H. 1073
Kido, H. 219, 1483
Kieß, W. 899
Kim, C.H. 143
Kim, J.H. 143
Kirschenhofer, A. 1097
Kitamura, K. 1483
Kitano, S. 911
Klan, N. 777
Kleinert, H. 1343
Klingenstein, R. 1293
Kloetzel, P.-M. 39
Klotz, L.-O. 213, 237
Knospe, H. 125
Kobarg, J. 25
Kobayashi, H. 749
Koch, M.A. 1265
Kochman, M. 59
Koh, Y.H. 567
Kohla, G. 1035
Köhler, D. 825
Koizume, S. 787
Kojima, M. 93, 1173
Kölzer, M. 1293
König, B. 125
Kontou, M. 169, 1501
Kopitz, C. 1097, 1515
Koszinowski, U. 1109
Kozik, A. 929
Krauth-Siegel, R.L. 539
Kreil, G. 175
Kretz-Remy, C. 589
Krijtenberg, P. 183
Kriaj, I. 305
Krol, J. 1085, 1097
Kröncke, K.-D. 1365
Krötz, F. 737
Krüger, A. 1097, 1515
Kruse, M.-N. 825
Kubota, S. 1
Kuebler, J.F. 1311
Kühl, N. 1321
Kuhn, W. 1247
Kühn-Wache, K. 403
Kumagai, H. 1451
Kuo, A. 229
Kuzkaya, N. 1597
Kwon, J.A. 203
Kwon, Y.-W. 991

Laber, B. 373
Lah, T.T. 447
Lalmanach, G. 921
Lam, S.K. 289
Lamba, D. 1165
Lamkemeyer, T. 1133
Langel, Ü. 387
Langhoff, S. 1049
Lasmézas, C. 243
Lausier, J. 737
Laux, G. 635
Lazzari, M.A. 1333
Le Page, C. 1509
Lecaille, F. 921
Lee, J. 143
Lehmann, U. 39
Lendeckel, U. 657
Lepperdinger, G. 175
Leucht, C. 243, 791
Levonen, A.-L. 527
Li, D.N. 1239
Li, Z. 891
Liang, O.D. 229
Lichota, J. 1019
Lilie, H. 247
Linder, M. 229
Liu, P. 1429
Liu, X. 673
Loak, K. 1239
Lohmann, C. 959
Lohmüller, T. 899
Lopes, A.R. 489
Lord, R.S.A. 423
Lozano, J.M. 71
Luber, B. 1073
Lubisch, W. 1597
Lück, C.P. 125
Ludwig, H.-H. 1583
Lüersen, K. 83, 1195
Lünsdorf, H. 619
Luparello, C. 965
Luther, M.-O. 1247
Lüttge, U. 721
Lynn, F. 403

Machleidt, W. 395, 1109
Machova, Z. 1619
Maehnss, K. 25
Magdolen, U. 1085, 1097
Magdolen, V. 311, 1085, 1097, 1119
Maiorino, M. 575
Manhart, S. 403, 1583
Mannervik, B. 645
Manoury, B. 1239
Marchfelder, A. 333
Martensen, I. 1203
Marx, A. 1533
Maskos, K. 863
Masutani, H. 991
Matile, H. 1227
Matsunaga, Y. 883
Matzanke, B.F. 1565
Maurer-Stroh, S. 977
Mauri, P. 575
Maybauer, D. 939
Maybauer, M. 939
Mazier, D. 1227
McIntosh, C.H.S. 403
McKerrow, J.H. 1613
Meiering, S.K. 539
Ménard, R. 837
Menge, U. 653
Mennella, V. 139
Messerschmidt, A. 373
Messmer, K. 1311
Mezghrani, A. 1273
Mihelič, M. 317
Misonou, Y. 567
Missirlis, F. 463

Mithöfer, A. 437
Mittag, M. 689
Miyamoto, Y. 567
Moellering, D.R. 527
Möller, A. 1597
Mooney, M.H. 1543
Moraes, K.C.M. 25
Moreno, S.G. 635
Moretti, F. 139
Moroder, L. 395
Morton, F. 1239
Mostert, V. 681
Muehlenweg, B. 1247
Mukudai, Y. 1
Müllegger, J. 175
Müller, C. 11
Multhoff, G. 267
Müntener, K. 1007
Murray, K. 363
Musumarra, G. 321

Nägler, D.K. 837
Nakamura, H. 991
Nakamura, Y. 1483
Napieralski, R. 483
Nathanson, C.-M. 281
Ndjonka, D. 83, 1195
Neubert, K. 657
Neuhof, C. 939, 1597
Neuhof, H. 939, 1597
Ng, T.B. 289, 811
Nickel, C. 551
Niedziela-Majka, A. 59
Nieuw Amerongen, A.V. 183
Nimtz, M. 1049, 1305
Nishikawa, M. 1483
Nitschko, H. 1109
Nohl, H. 493

O'Harte, F.P.M. 1543
Okumura, Y. 1483
Oliva, M.L.V. 489, 939
Ookawara, T. 567
Ortutay, Z. 409
Oświęcimska-Rusin, K. 59
Ożyhar, A. 59

Pagani, S. 1473
Pankow, H. 763
Papadimou, E. 457
Parente, A. 295
Park, Y.S. 567
Patarroyo, M.E. 71, 1443
Patel, R.P. 527
Paul, R.J. 1133
Pavlidou, D. 457
Peč, P. 1451
Pederson, R.A. 403
Pedrazzi, G. 1155
Pejler, G. 1527
Pennington, C. 1515
Persson, M.A.A. 645
Petäjä-Repo, U. 117
Peters, C. 899
Petkovic, M. 1155
Pévet, P. 711
Pfeiler, D. 395
Pfeilschifter, J. 1379
Phillips, J.P. 463
Picariello, G. 1473
Pietta, P.G. 575
Pilawa, S. 575
Pingoud, A. 1533
Pinkhaus, O. 1133
Pirow, R. 1133
Plank, C. 737
Pluschke, G. 1227
Poerio, E. 295
Poloni, F. 139
Polster, J. 997
Popiela, A. 1103
Popovič, T. 305
Popp, O. 951
Potempa, J. 929
Powers, J.C. 1613
Prändl, R. 959
Preissner, K.T. 229, 423
Probst, C. 311
Przibilla, S. 105
Pucci, P. 1165
Puerta-Fernández, E. 343

Quaresma, A.J.C. 25
Quigley, J.P. 1515

Rahlfs, S. 463, 551
Rakus, D. 51
Ramirez, M.H. 169
Rąpała-Kozik, M. 929
Rawlings, N.D. 873
Reichwein, J. 1327
Reinheckel, T. 899
Reiser, G. 193
Rémy, J.-S. 737
Rensing, L. 161
Rettenberger, P. 1085
Reuning, U. 1073, 1119
Reverdiau, P. 1029
Rho, H.M. 203
Ribeiro, E.B. 151
Riboldi-Tunnicliffe, A. 125
Ries, C. 951
Riley, M.L. 791
Risse, S. 1063
Rolletschek, A. 1391
Rollin, J. 1029
Romero-López, C. 343
Rösch, S. 333
Rosche, F. 403
Roscher, A.A. 1311
Rosenau, T. 493
Rosenecker, J. 737
Rosenstein, R.E. 1333
Rösmann, S. 825
Roveri, A. 575
Rubio Demirovic, A. 1435
Ruffato, E. 1273
Ruissen, A.L.A. 183
Ruiz-Heinrich, L. 951
Rusek, A. 59
Rustom, A. 175
Ryan, C.A. 855
Rymarczyk, G. 59

Saad, M.J.A. 151
Sakiyama, H. 567
Salahpour, A. 117
Salazar, L.M. 1443
Saleh, Y. 1103
Salvesen, G.S. 855
Sampaio, C.A.M. 489, 939
Sampaio, M.U. 489, 939, 1333
Sander, C.A. 311
Sandhoff, K. 1293
Santomauro-Vaz, E.M. 489
Sato, M. 219
Sato, S. 1085
Sauckel, K. 281
Schaschke, N. 395
Schauer, R. 1203, 1035
Schechter, N.M. 1605
Scheer, F.A.J.L. 697
Scheibner, M. 1049
Scheidegger, P. 1435
Scherer, F. 737
Scherneck, S. 763
Schiffer, S. 333
Schilling, S. 1583
Schillinger, U. 737
Schirmer, R.H. 551
Schmalfeldt, B. 1247
Schmidt, H. 539
Schmidt-Wöll, T. 423
Schmitt, M. 1073, 1085, 1097, 1119, 1247
Schnur, N. 777
Schöffl, F. 959
Schremmer-Danninger, E. 1311
Schuh, T. 311
Schuler, B. 1463
Schüler, G. 437
Schulze, C. 473
Schulze, H. 1293
Schulze, W. 763
Schwarz, P.M. 1343
Schwede, F. 1321
Schweiger, M. 169, 1501
Schweinitz, A. 1515
Schwerdtfeger, K. 1287
Scirè, S. 321
Šebela, M. 1451
Selak, N. 1155
Selwood, T. 1605
Séraphin, B. 457
Serveau, C. 921
Seuter, S. 777
Sever, N. 447
Shiota, M. 1483
Shiraishi, M. 787
Shogomori, H. 1259
Shuman, M.A. 257
Sies, H. 213, 237
Siewiński, M. 1103
Silberring, J. 929
Silva, Y. 71
Silvie, O. 1227
Simoneau, S. 243
Sirchia, R. 965
Sitia, R. 1273
Sloane, B.F. 447, 845, 1421
Slotty, K.A. 825
Spagnuolo, M.S. 1593
Speth, M. 1597
Spiess, E. 281
Spindler-Barth, M. 105
Srivastava, D.K. 19
Stagljar, I. 1155
Steegborn, C. 373
Stehr, M. 619
Steinhilber, D. 777
Steinmetzer, T. 1515
Steinmüller, L. 667
Sterchi, E.E. 825
Stöcker, W. 825
Stohwasser, R. 39
Stolze, K. 493
Stork, J. 1553
Strerath, M. 1533
Struhalla, M. 1497
Štrukelj, B. 305
Studer, I. 1155
Stürzebecher, J. 1515
Suder, P. 929
Summerer, D. 1533
Süsens, U. 473
Suzuki, E.-i. 1173
Suzuki, K. 567
Suzuki, M. 749

Tachibana, K. 787
Tadje, J. 657
Tagliavacca, L. 1273
Takahashi, K. 93, 1173
Takeuchi, T. 257
Takigawa, M. 1
Takii, R. 911
Takito, J. 1255
Tamaki, H. 1451
Tan, W.S. 363
Tang, Y.-H. 805
Taniguchi, N. 567
Tanokura, M. 93, 1173
Terao, T. 749
Terra, W.R. 489
Tews, B. 1533
Thiel, G. 667
Tillmann, H. 51
Tillmanns, H. 1597
Tiralongo, E. 1203
Tiralongo, J. 1203
Tisdale, E.J. 1227
Tolan, D.R. 1463
Tolle, D.P. 873
Tomita, K. 1483
Tomozawa, T. 219
Tompa, P. 945
Torres-Castellanos, J.L. 71
Tóth, S. 409
Travis, J. 929
Trumbeckaite, S. 1597

Tsambaos, D. 457
Tschesche, H. 1247

Udilova, N. 493
Ulaszewski, S. 51
Ullrich, A. 1215
Ursini, F. 575

van 't Hof, W. 183
Van der Zee, E.A. 729
Vanegas, M. 71
Veerman, E.C.I. 183
Velloso, L.A. 151
Vijayakumar, S. 1255
Vogel, S. 1497
Vollmer, E. 1133
von der Helm, K. 1109

Wagner, L. 1553
Wagner, V. 689
Wahl, M.C. 373
Waldmann, H. 1265
Walgreen-Weterings, E. 183
Walter, R.D. 83, 1195
Wang, H. 193
Wang, S. 805
Washietl, S. 977
Wasternack, C. 1583
Watts, C. 1239
Weber, A. 1553
Wei, Q. 1299, 1429
Weiglhofer, W. 1435
Weiss, S. 243, 791
Welk, A. 1247
Welzel, P. 1497
Wenzel, K. 763
Wenzler, D. 899
Werle, B. 281
Wermann, M. 1553
Werner, E.R. 1057
Werner-Felmayer, G. 1057
Werth, N. 1293
Wiese, C. 1391
Wietzerbin, J. 1509
Wigley, A. 527
Wild, C. 1057
Wilhelm, J. 1533
Wilkinson, S.R. 517
Wilson, S.H. 19
Wingler, K. 11
Wissing, J. 619
Wobus, A.M. 1391
Wolke, C. 657
Wolters, P. 1527
Wong, V.K.W. 1147
Worbs, M. 373
Wosikowski, K. 311
Woster, P. 1195
Wu, Y. 1215
Wysocki, R. 51

Xiang, B. 1429

Yam, J.W.P. 1147
Yamada, M. 1451
Yamamoto, K. 911
Yamashita, M. 219
Yan, H. 1185
Yan, S. 845, 1421
Yang, S. 1429
Yang, X.-P. 19
Ye, X.Y. 811
Yi, F. 1429
Ylstra, B. 257
Yodoi, J. 991
Yonath, A. 1411
Yoshida, S. 219
Yu, C. 125

Zajc, I. 447
Zeis, B. 1133
Zelenka, M. 351
Zhang, L. 959
Ziemiecki, A. 1575
Ziółkowski, P. 1103
Zorn, H. 1049
Zorn-Kruppa, M. 1321
Zou, K. 1429
Zou, Y. 1195
Zürcher, G. 1575
Zwicky, R. 1007

Biol. Chem., Vol. 384, pp. 1647 – 1664, December 2003 · Copyright © by Walter de Gruyter · Berlin · New York

Subject Index

Acantholysis

Schuh, T., R. Besch, E. Braungart, M.J. Flaig, K. Douwes, C.A. Sander, V. Magdolen, C. Probst, K. Wosikowski and K. Degitz
Protease Inhibitors Prevent Plasminogen-Mediated, But Not Pemphigus Vulgaris-Induced, Acantholysis in Human Epidermis *384*, 311 – 315

Adenosine deaminase

Bär, J., A. Weber, T. Hoffmann, J. Stork, M. Wermann, L. Wagner, S. Aust, B. Gerhartz and H.-U. Demuth
Characterisation of Human Dipeptidyl Peptidase IV Expressed in *Pichia pastoris*. A Structural and Mechanistic Comparison between the Recombinant Human and the Purified Porcine Enzyme *384*, 1553 – 1563

Adrenodoxin

Cereda, A., F. Forlani, S. Iametti, R. Bernhardt, P. Ferranti, G. Picariello, S. Pagani and F. Bonomi
Molecular Recognition between *Azotobacter vinelandii* Rhodanese and a Sulfur Acceptor Protein *384*, 1473 – 1481

Alanyl-aminopeptidase

Bukowska, A., J. Tadje, M. Arndt, C. Wolke, T. Kähne, J. Bartsch, J. Faust, K. Neubert, Y. Hashimoto and U. Lendeckel
Transcriptional Regulation of Cytosol and Membrane Alanyl-Aminopeptidase in Human T Cell Subsets *384*, 657 – 665

Aldolase

Tolan, D.R., B. Schuler, P.T. Beernink and R. Jaenicke
Thermodynamic Analysis of the Dissociation of the Aldolase Tetramer Substituted at One or Both of the Subunit Interfaces *384*, 1463 – 1471

Allergy

Amoresano, A., P. Pucci, G. Duro, P. Colombo, M.A. Costa, V. Izzo, D. Lamba and D. Geraci
Assignment of Disulphide Bridges in Par j 2.0101, a Major Allergen of *Parietaria judaica* Pollen *384*, 1165 – 1172

Allosteric inhibition

Rakus, D., H. Tillmann, R. Wysocki, S. Ulaszewski, K. Eschrich and A. Dzugaj
Different Sensitivities of Mutants and Chimeric Forms of Human Muscle and Liver Fructose-1,6 –Bisphosphatases towards AMP *384*, 51 – 58

α-Crystallin

Yan, H. and J.J. Harding
The Molecular Chaperone, α-Crystallin, Protects against Loss of Antigenicity and Activity of Esterase Caused by Sugars, Sugar Phosphate and a Steroid *384*, 1185 – 1194

Antibody, monoclonal

Flego, M., V. Mennella, F. Moretti, F. Poloni, M.L. Dupuis, A. Ascione, S. Barca, F. Felici and M. Cianfriglia
Identification by Phage Display of the Linear Continuous MRPr1 Epitope in the Multidrug Resistance-Associated Protein (MRP1) *384*, 139 – 142

Antibody, polyclonal

Gregory, P., A. Ziemiecki, G. Zürcher, U. Brodbeck and P. Bütikofer
Anti-Mouse GPI-PLD Antisera Highlight Structural Differences between Murine and Bovine GPI-PLDs *384*, 1575 – 1582

Antigen presentation

Katunuma, N., Y. Matsunaga, K. Himeno and Y. Hayashi
Insights into the Roles of Cathepsins in Antigen Processing and Presentation Revealed by Specific Inhibitors *384*, 883 – 890

Antigen processing

Loak, K., D.N. Li, B. Manoury, J. Billson, F. Morton, E. Hewitt and C. Watts
Novel Cell-Permeable Acyloxymethylketone Inhibitors of Asparaginyl Endopeptidase 384, 1239 – 1246

Antioxidant

Becker, K., S. Rahlfs, C. Nickel and R.H. Schirmer
Glutathione – Functions and Metabolism in the Malarial Parasite *Plasmodium falciparum 384*, 551 – 566

Bondzio, A., P. Blankenstein and S. Risse
Effects of Hydrogen Peroxide on Bovine Leukemia Virus Expression *384*, 1063 – 1072

Esworthy, R.S., S.W. Binder, J.H. Doroshow and F.-F. Chu
Microflora Trigger Colitis in Mice Deficient in Selenium-Dependent Glutathione Peroxidase and Induce *Gpx2* Gene Expression *384*, 597 – 607

Missirlis, F., S. Rahlfs, N. Dimopoulos, H. Bauer, K. Becker, A. Hilliker, J.P. Phillips and H. Jäckle
A Putative Glutathione Peroxidase of *Drosophila* Encodes a Thioredoxin Peroxidase That Provides Resistance against Oxidative Stress But Fails to Complement a Lack of Catalase Activity *384*, 463 – 472

Apolipoprotein AI

Spagnuolo, M.S., L. Cigliano and P. Abrescia
The Binding of Haptoglobin to Apolipoprotein AI: Influence of Hemoglobin and Concanavalin A *384*, 1593 – 1596

Apoptosis

Al-Fakhri, N., T. Chavakis, T. Schmidt-Wöll, B. Huang, S.M. Cherian, Y.V. Bobryshev, R.S.A. Lord, N. Katz and K.T. Preissner
Induction of Apoptosis in Vascular Cells by Plasminogen Activator Inhibitor-1 and High Molecular Weight Kininogen Correlates with Their Anti-Adhesive Properties *384*, 423 – 435

Bondzio, A., P. Blankenstein and S. Risse
Effects of Hydrogen Peroxide on Bovine Leukemia Virus Expression *384*, 1063 – 1072

Gil-Parrado, S., I. Assfalg-Machleidt, F. Fiorino, D. Deluca, D. Pfeiler, N. Schaschke, L. Moroder and W. Machleidt
Calpastatin Exon 1B-Derived Peptide, a Selective Inhibitor of Calpain: Enhancing Cell Permeability by Conjugation with Penetratin *384*, 395 – 402

Luparello, C., F. David, G. Campisi and R. Sirchia
T47 –D Cells and Type V Collagen: A Model for the Study of Apoptotic Gene Expression by Breast Cancer Cells *384*, 965 – 975

Ramirez, M.H., C. Adelfalk, M. Kontou, M. Hirsch-Kauffmann and M. Schweiger
The Cellular Control Enzyme PolyADP Ribosyl Transferase Is Eliminated in Cultured Fanconi Anemia Fibroblasts at Confluency *384*, 169 – 174

Ryan, C.A. and G.S. Salvesen
Caspases and Neuronal Development *384*, 855 – 861

Aptamer

Betat, H., S. Vogel, M. Struhalla, H.-H. Förster, M. Famulok, P. Welzel and U. Hahn
Aptamers That Recognize the Lipid Moiety of the Antibiotic Moenomycin A *384*, 1497 – 1500

Aza-asparagine

James, K.E., M.G. Götz, C.R. Caffrey, E. Hansell, W. Carter, A.J. Barrett, J.H. McKerrow and J.C. Powers
Aza-Peptide Epoxides: Potent and Selective Inhibitors of *Schistosoma mansoni* and Pig Kidney Legumains (Asparaginyl Endopeptidases) *384*, 1613 – 1618

Bikunin

Kobayashi, H., M. Suzuki, Y. Hirashima and T. Terao
The Protease Inhibitor Bikunin, a Novel Anti-Metastatic Agent *384*, 749 – 754

Biotransformation

Bartsch, M., M. Zorn-Kruppa, N. Kühl, H.-G. Genieser, F. Schwede and B. Jastorff
Bioactivatable, Membrane-Permeant Analogs of Cyclic Nucleotides as Biological Tools for Growth Control of C6 Glioma Cells *384*, 1321 – 1326

Bradykinin

Dulinski, R., P. Suder, I. Guevara-Lora, M. Rąpała-Kozik, J. Potempa, J. Silberring, T. Imamura, J. Travis and A. Kozik
Attenuated Kinin Release from Human Neutrophil Elastase-Pretreated Kininogens by Tissue and Plasma Kallikreins *384*, 929 – 937

Bromelain

Hatano, K.-i., M. Kojima, M. Tanokura and K. Takahashi
Nuclear Magnetic Resonance Studies on the pK_a Values and Interaction of Ionizable Groups in Bromelain Inhibitor VI from Pineapple Stem *384*, 93 – 104

Cadherin

Elmquist, A. and Ü. Langel
In vitro Uptake and Stability Study of *p*VEC and Its All-D Analog *384*, 387 – 393

Calcineurin

Jiang, G. and Q. Wei
Function and Structure of N-Terminal and C-Terminal Domains of Calcineurin B Subunit *384*, 1299 – 1303

Xiang, B., P. Liu, G. Jiang, K. Zou, F. Yi, S. Yang and Q. Wei
The Catalytically Active Domain in the A Subunit of Calcineurin *384*, 1429 – 1434

Calmodulin

Hentschke, M., C. Schulze, U. Süsens and U. Borgmeyer
Characterization of Calmodulin Binding to the Orphan Nuclear Receptor ERRγ *384*, 473 – 482

Calpain

Farkas, A., P. Tompa and P. Friedrich
Revisiting Ubiquity and Tissue Specificity of Human Calpains *384*, 945 – 949

Gil-Parrado, S., I. Assfalg-Machleidt, F. Fiorino, D. Deluca, D. Pfeiler, N. Schaschke, L. Moroder and W. Machleidt
Calpastatin Exon 1B-Derived Peptide, a Selective Inhibitor of Calpain: Enhancing Cell Permeability by Conjugation with Penetratin *384*, 395 – 402

Neuhof, C., O. Götte, S. Trumbeckaite, M. Attenberger, N. Kuzkaya, F. Gellerich, A. Möller, W. Lubisch, M. Speth, H. Tillmanns and H. Neuhof
A Novel Water-Soluble and Cell-Permeable Calpain Inhibitor Protects Myocardial and Mitochondrial Function in Postischemic Reperfusion *384*, 1597 – 1603

Popp, O., M. Heidinger, L. Ruiz-Heinrich, C. Ries, M. Jochum and S. Gil-Parrado
The Calpastatin-Derived Calpain Inhibitor CP1B Reduces mRNA Expression of Matrix Metalloproteinase-2 and -9 and Invasion by Leukemic THP-1 Cells *384*, 951 – 958

Calpastatin

Popp, O., M. Heidinger, L. Ruiz-Heinrich, C. Ries, M. Jochum and S. Gil-Parrado
The Calpastatin-Derived Calpain Inhibitor CP1B Reduces mRNA Expression of Matrix Metalloproteinase-2 and -9 and Invasion by Leukemic THP-1 Cells *384*, 951 – 958

cAMP analog

Bartsch, M., M. Zorn-Kruppa, N. Kühl, H.-G. Genieser, F. Schwede and B. Jastorff
Bioactivatable, Membrane-Permeant Analogs of Cyclic Nucleotides as Biological Tools for Growth Control of C6 Glioma Cells *384*, 1321 – 1326

Cancer cells

Achilles, K. and P.J. Bednarski
Quantification of Elastase-Like Activity in 13 Human Cancer Cell Lines and in an Immortalized Human Epithelial Cell Line by RP-HPLC *384*, 817 – 824

Carboxyfluorescein

David, R., Z. Machova and A.G. Beck-Sickinger
Semisynthesis and Application of Carboxyfluorescein-Labelled Biologically Active Human Interleukin-8 *384*, 1619 – 1630

Carboxypeptidase A

Henningsson, F., P. Wolters, H.A. Chapman, G.H. Caughey and G. Pejler
Mast Cell Cathepsins C and S Control Levels of Carboxypeptidase A and the Chymase, Mouse Mast Cell Protease 5 *384*, 1527 – 1531

Carboxypeptidase M

Kuebler, J.F., E. Schremmer-Danninger, K.D. Bhoola, A.A. Roscher, K. Messmer and T.F. Hoffmann
Kinin-B1 Receptors in Ischaemia-Induced Pancreatitis: Functional Importance and Cellular Localisation *384*, 1311 – 1319

Carotenoids

Zorn, H., S. Langhoff, M. Scheibner, M. Nimtz and R.G. Berger
A Peroxidase from *Lepista irina* Cleaves β,β-Carotene to Flavor Compounds *384*, 1049 – 1056

Caspase

Lohmüller, T., D. Wenzler, S. Hagemann, W. Kieß, C. Peters, T. Dandekar and T. Reinheckel
Toward Computer-Based Cleavage Site Prediction of Cysteine Endopeptidases *384*, 899 – 909

Ryan, C.A. and G.S. Salvesen
Caspases and Neuronal Development *384*, 855 – 861

Catechin

Polster, J., H. Dithmar and W. Feucht
Are Histones the Targets for Flavan-3-ols (Catechins) in Nuclei? *384*, 997–1006

Cathepsin

Bervar, A., I. Zajc, N. Sever, N. Katunuma, B.F. Sloane and T.T. Lah
Invasiveness of Transformed Human Breast Epithelial Cell Lines Is Related to Cathepsin B and Inhibited by Cysteine Proteinase Inhibitors *384*, 447–455

Dodt, J. and J. Reichwein
Human Cathepsin H: Deletion of the Mini-Chain Switches Substrate Specificity from Aminopeptidase to Endopeptidase *384*, 1327–1332

Henningsson, F., P. Wolters, H.A. Chapman, G.H. Caughey and G. Pejler
Mast Cell Cathepsins C and S Control Levels of Carboxypeptidase A and the Chymase, Mouse Mast Cell Protease 5 *384*, 1527–1531

Hou, W.-S., Z. Li, F.H. Büttner, E. Bartnik and D. Brömme
Cleavage Site Specificity of Cathepsin K toward Cartilage Proteoglycans and Protease Complex Formation *384*, 891–897

Katunuma, N., Y. Matsunaga, K. Himeno and Y. Hayashi
Insights into the Roles of Cathepsins in Antigen Processing and Presentation Revealed by Specific Inhibitors *384*, 883–890

Lohmüller, T., D. Wenzler, S. Hagemann, W. Kieß, C. Peters, T. Dandekar and T. Reinheckel
Toward Computer-Based Cleavage Site Prediction of Cysteine Endopeptidases *384*, 899–909

Nägler, D.K. and R. Ménard
Family C1 Cysteine Proteases: Biological Diversity or Redundancy? *384*, 837–843

Serveau, C., A. Boulangé, F. Lecaille, F. Gauthier, E. Authié and G. Lalmanach
Procongopain from *Trypanosoma Congolense* Is Processed at Basic pH: An Unusual Feature among Cathepsin L-like Cysteine Proteases *384*, 921–927

Siewiński, M., Y. Saleh, A. Popiela, P. Ziółkowski, M. Jeleń and M. Gryboś
Expression of High Molecular Weight Cysteine Proteinase Inhibitor in Ovarian Cancer Tissues: Regulation of Cathepsin B Expression by Placental CPI *384*, 1103–1107

Yan, S. and B.F. Sloane
Molecular Regulation of Human Cathepsin B: Implication in Pathologies *384*, 845–854

Yan, S., D.T. Jane, M.J. Dufresne and B.F. Sloane
Transcription of Cathepsin B in Glioma Cells: Regulation by an E-Box Adjacent to the Transcription Initiation Site *384*, 1421–1427

Zwicky, R., K. Müntener, G. Csucs, M.B. Goldring and A. Baici
Exploring the Role of 5' Alternative Splicing and of the 3'-Untranslated Region of Cathepsin B mRNA *384*, 1007–1018

cDNA microarray

Musumarra, G., V. Barresi, D.F. Condorelli and S. Scirè
A Bioinformatic Approach to the Identification of Candidate Genes for the Development of New Cancer Diagnostics *384*, 321–327

Cell adhesion

Reuning, U., V. Magdolen, S. Hapke and M. Schmitt
Molecular and Functional Interdependence of the Urokinase-Type Plasminogen Activator System with Integrins *384*, 1119–1131

Cell cycle

Gerullis, D., L. Rensing and D. Beyersmann
Heat Shock Treatment Decreases E2F1-DNA Binding and E2F1 Levels in Human A549 Cells *384*, 161–167

Chaperone

Yan, H. and J.J. Harding
The Molecular Chaperone, α-Crystallin, Protects against Loss of Antigenicity and Activity of Esterase Caused by Sugars, Sugar Phosphate and a Steroid *384*, 1185–1194

Chondrocyte

Mukudai, Y., S. Kubota and M. Takigawa
Conserved Repressive Regulation of Connective Tissue Growth Factor/Hypertrophic Chondrocyte-Specific Gene 24 (ctgf/hcs24) Enabled by Different Elements and Factors among Vertebrate Species *384*, 1–9

Chromatin

Angermayr, M., K. Schwerdtfeger and W. Bandlow
A Nucleosome-Free dG-dC-Rich Sequence Element Promotes Constitutive Transcription of the Essential Yeast *RIO1* Gene *384*, 1287–1292

Lichota, J. and K.D. Grasser
Interaction of Maize Chromatin-Associated HMG Proteins with Mononucleosomes: Role of Core and Linker Histones *384*, 1019–1027

Chymase

Henningsson, F., P. Wolters, H.A. Chapman, G.H. Caughey and G. Pejler
Mast Cell Cathepsins C and S Control Levels of Carboxypeptidase A and the Chymase, Mouse Mast Cell Protease 5 *384*, 1527–1531

Circadian rhythm

Biemans, B.A.M., E.A. Van der Zee and S. Daan
Age-Dependent Effects of Conditioning on Cholinergic and Vasopressin Systems in the Rat Suprachiasmatic Nucleus *384*, 729–736

Bohn, A., S. Hinderlich, M.-T. Hütt, F. Kaiser and U. Lüttge
Identification of Rhythmic Subsystems in the Circadian Cycle of Crassulacean Acid Metabolism under Thermoperiodic Perturbations *384*, 721–728

Challet, E., I. Caldelas, C. Graff and P. Pévet
Synchronization of the Molecular Clockwork by Light- and Food-Related Cues in Mammals *384*, 711–719

Mittag, M. and V. Wagner
The Circadian Clock of the Unicellular Eukaryotic Model Organism *Chlamydomonas reinhardtii* *384*, 689–695

Scheer, F.A.J.L., A. Kalsbeek and R.M. Buijs
Cardiovascular Control by the Suprachiasmatic Nucleus: Neural and Neuroendocrine Mechanisms in Human and Rat *384*, 697–709

Collagenase

Hantke, B., N. Harbeck, B. Schmalfeldt, I. Claes, O. Hiller, M.-O. Luther, A. Welk, W. Kuhn, M. Schmitt, H. Tschesche and B. Muehlenweg
Clinical Relevance of Matrix Metalloproteinase-13 Determined with a New Highly Specific and Sensitive ELISA in Ascitic Fluid of Advanced Ovarian Carcinoma Patients *384*, 1247–1251

Hou, W.-S., Z. Li, F.H. Büttner, E. Bartnik and D. Brömme
Cleavage Site Specificity of Cathepsin K toward Cartilage Proteoglycans and Protease Complex Formation *384*, 891 – 897

Combinatorial library

Koch, M.A., R. Breinbauer and H. Waldmann
Protein Structure Similarity as Guiding Principle for Combinatorial Library Design *384*, 1265 – 1272

Concanavalin A

Spagnuolo, M.S., L. Cigliano and P. Abrescia
The Binding of Haptoglobin to Apolipoprotein AI: Influence of Hemoglobin and Concanavalin A *384*, 1593 – 1596

Congopain

Serveau, C., A. Boulangé, F. Lecaille, F. Gauthier, E. Authié and G. Lalmanach
Procongopain from *Trypanosoma Congolense* Is Processed at Basic pH: An Unusual Feature among Cathepsin L-like Cysteine Proteases *384*, 921 – 927

Connective tissue growth factor (CTGF)

Mukudai, Y., S. Kubota and M. Takigawa
Conserved Repressive Regulation of Connective Tissue Growth Factor/Hypertrophic Chondrocyte-Specific Gene 24 (ctgf/hcs24) Enabled by Different Elements and Factors among Vertebrate Species *384*, 1 – 9

Cooperativity

Liu, X. and H. Bisswanger
Solvent Isotope Effect on the Reaction Catalysed by the Pyruvate Dehydrogenase Complex from *Escherichia coli* *384*, 673 – 679

Copper amine oxidase

Frébort, I., M. Šebela, S. Hirota, M. Yamada, H. Tamaki, H. Kumagai, O. Adachi and P. Peč
Gene Organization and Molecular Modeling of Copper Amine Oxidase from *Aspergillus niger*: Re-Evaluation of the Cofactor Structure *384*, 1451 – 1461

Coronary flow

Neuhof, C., O. Götte, S. Trumbeckaite, M. Attenberger, N. Kuzkaya, F. Gellerich, A. Möller, W. Lubisch, M. Speth, H. Tillmanns and H. Neuhof
A Novel Water-Soluble and Cell-Permeable Calpain Inhibitor Protects Myocardial and Mitochondrial Function in Postischemic Reperfusion *384*, 1597 – 1603

Crassulacean acid metabolism

Bohn, A., S. Hinderlich, M.-T. Hütt, F. Kaiser and U. Lüttge
Identification of Rhythmic Subsystems in the Circadian Cycle of Crassulacean Acid Metabolism under Thermoperiodic Perturbations *384*, 721 – 728

Cystathionine γ-lyase

Messerschmidt, A., M. Worbs, C. Steegborn, M.C. Wahl, R. Huber, B. Laber and T. Clausen
Determinants of Enzymatic Specificity in the Cys-Met-Metabolism PLP-Dependent Enzyme Family: Crystal Structure of Cystathionine γ-Lyase from Yeast and Intrafamiliar Structure Comparison *384*, 373 – 386

Cysteinylglycine

Jösch, C., L.-O. Klotz and H. Sies
Identification of Cytosolic Leucyl Aminopeptidase (EC 3.4.11.1) as the Major Cysteinylglycine-Hydrolysing Activity in Rat Liver *384*, 213 – 218

Cytochrome

Hubmacher, D., B.F. Matzanke and S. Anemüller
Effects of Iron Limitation on the Respiratory Chain and the Membrane Cytochrome Pattern of the Euryarchaeon *Halobacterium salinarum* *384*, 1565 – 1573

Detergent

Shogomori, H. and D.A. Brown
Use of Detergents to Study Membrane Rafts: The Good, the Bad, and the Ugly *384*, 1259 – 1263

Diabetes

Green, B.D., V.A. Gault, N. Irwin, M.H. Mooney, C.J. Bailey, P. Harriott, B. Greer, P.R. Flatt and F.P.M. O'Harte
Metabolic Stability, Receptor Binding, cAMP Generation, Insulin Secretion and Antihyperglycaemic Activity of Novel N-Terminal Glu^9-Substituted Analogues of Glucagon-Like Peptide-1 *384*, 1543 – 1551

Differentiation

Al-Awqati, Q., S. Vijayakumar and J. Takito
Terminal Differentiation of Epithelia *384*, 1255 – 1258

Czyz, J., C. Wiese, A. Rolletschek, P. Blyszczuk, M. Cross and A.M. Wobus
Potential of Embryonic and Adult Stem Cells *in vitro* *384*, 1391 – 1409

Tagliavacca, L., T. Anelli, C. Fagioli, A. Mezghrani, E. Ruffato and R. Sitia
The Making of a Professional Secretory Cell: Architectural and Functional Changes in the ER during B Lymphocyte Plasma Cell Differentiation *384*, 1273 – 1277

Dihydropteridine reductase

Wild, C., G. Golderer, P. Gröbner, G. Werner-Felmayer and E.R. Werner
Physarum polycephalum Expresses a Dihydropteridine Reductase with Selectivity for Pterin Substrates with a 6–(1', 2'-Dihydroxypropyl) Substitution *384*, 1057 – 1062

Dipeptidase, lysosomal

Dolenc, I. and M. Mihelič
Purification and Primary Structure Determination of Human Lysosomal Dipeptidase *384*, 317 – 320

Dipeptidyl peptidase IV

Bär, J., A. Weber, T. Hoffmann, J. Stork, M. Wermann, L. Wagner, S. Aust, B. Gerhartz and H.-U. Demuth Characterisation of Human Dipeptidyl Peptidase IV Expressed in *Pichia pastoris*. A Structural and Mechanistic Comparison between the Recombinant Human and the Purified Porcine Enzyme *384*, 1553 – 1563

Green, B.D., V.A. Gault, N. Irwin, M.H. Mooney, C.J. Bailey, P. Harriott, B. Greer, P.R. Flatt and F.P.M. O'Harte
Metabolic Stability, Receptor Binding, cAMP Generation, Insulin Secretion and Antihyperglycaemic Activity of Novel N-Terminal Glu^9-Substituted Analogues of Glucagon-Like Peptide-1 *384*, 1543 – 1551

DNA damage

He, F., X.-P. Yang, D.K. Srivastava and S.H. Wilson
DNA Polymerase ß Gene Expression: The Promoter Activator CREB-1 Is Upregulated in Chinese Hamster Ovary Cells by DNA Alkylating Agent-Induced Stress *384*, 19 – 23

DNA methylation

Hubé, F., P. Reverdiau, S. Iochmann, J. Rollin, C. Cherpi-Antar and Y. Gruel
Transcriptional Silencing of the TFPI-2 Gene by Promoter Hypermethylation in Choriocarcinoma Cells *384*, 1029–1034

Klan, N., S. Seuter, N. Schnur, M. Jung and D. Steinhilber
Trichostatin A and Structurally Related Histone Deacetylase Inhibitors Induce 5-Lipoxygenase Promoter Activity *384*, 777–785

Koizume, S., K. Tachibana and M. Shiraishi
Treatment of Tumor Cells with Histone Deacetylase Inhibitors Results in Altered Recruitment of Methyl-CpG Binding Proteins to a Methylated CpG Island *384*, 787–790

DNA recombination

Pedrazzi, G., C.Z. Bachrati, N. Selak, I. Studer, M. Petkovic, I.D. Hickson, J. Jiricny and I. Stagljar
The Bloom's Syndrome Helicase Interacts Directly with the Human DNA Mismatch Repair Protein hMSH6 *384*, 1155–1164

DNA repair

He, F., X.-P. Yang, D.K. Srivastava and S.H. Wilson
DNA Polymerase ß Gene Expression: The Promoter Activator CREB-1 Is Upregulated in Chinese Hamster Ovary Cells by DNA Alkylating Agent-Induced Stress *384*, 19–23

Pedrazzi, G., C.Z. Bachrati, N. Selak, I. Studer, M. Petkovic, I.D. Hickson, J. Jiricny and I. Stagljar
The Bloom's Syndrome Helicase Interacts Directly with the Human DNA Mismatch Repair Protein hMSH6 *384*, 1155–1164

Drug design

Koch, M.A., R. Breinbauer and H. Waldmann
Protein Structure Similarity as Guiding Principle for Combinatorial Library Design *384*, 1265–1272

Drug resistance

Hoffmann, D., I. Assfalg-Machleidt, H. Nitschko, K. von der Helm, U. Koszinowski and W. Machleidt
Rapid Enzymatic Test for Phenotypic HIV Protease Drug Resistance 384, 1109–1117

Elastase

Achilles, K. and P.J. Bednarski
Quantification of Elastase-Like Activity in 13 Human Cancer Cell Lines and in an Immortalized Human Epithelial Cell Line by RP-HPLC *384*, 817–824

Neuhof, C., M.L.V. Oliva, D. Maybauer, M. Maybauer, C. de Oliveira, M.U. Sampaio, C.A.M. Sampaio and H. Neuhof
Effect of Plant Kunitz Inhibitors from *Bauhinia bauhinioides* and *Bauhinia rufa* on Pulmonary Edema Caused by Activated Neutrophils *384*, 939–944

Endoplasmic reticulum

Tagliavacca, L., T. Anelli, C. Fagioli, A. Mezghrani, E. Ruffato and R. Sitia
The Making of a Professional Secretory Cell: Architectural and Functional Changes in the ER during B Lymphocyte Plasma Cell Differentiation *384*, 1273–1277

Epoxysuccinate

James, K.E., M.G. Götz, C.R. Caffrey, E. Hansell, W. Carter, A.J. Barrett, J.H. McKerrow and J.C. Powers
Aza-Peptide Epoxides: Potent and Selective Inhibitors of *Schistosoma mansoni* and Pig Kidney Legumains (Asparaginyl Endopeptidases) *384*, 1613–1618

Expressed protein ligation (EPL)

David, R., Z. Machova and A.G. Beck-Sickinger
Semisynthesis and Application of Carboxyfluorescein-Labelled Biologically Active Human Interleukin-8 *384*, 1619–1630

Fabin

Ng, T.B. and X.Y. Ye
Fabin, a Novel Calcyon-Like and Glucanase-Like Protein with Mitogenic, Antifungal and Translation-Inhibitory Activities from Broad Beans *384*, 811–815

Factor Xa

Andrade, S.A., E.M. Santomauro-Vaz, A.R. Lopes, A.M. Chudzinski-Tavassi, M.A. Juliano, W.R. Terra, M.U. Sampaio, C.A.M. Sampaio and M.L.V. Oliva
Bauhinia Proteinase Inhibitor-Based Synthetic Fluorogenic Substrates for Enzymes Isolated from Insect Midgut and Caterpillar Bristles *384*, 489–492

Banke, I.J., M.J.E. Arlt, C. Pennington, C. Kopitz, T. Steinmetzer, A. Schweinitz, B. Gansbacher, J.P. Quigley, D.R. Edwards, J. Stürzebecher and A. Krüger
Increase of Anti-Metastatic Efficacy by Selectivity- But Not Affinity-Optimization of Synthetic Serine Protease Inhibitors *384*, 1515–1525

Fanconi anemia

Ramirez, M.H., C. Adelfalk, M. Kontou, M. Hirsch-Kauffmann and M. Schweiger
The Cellular Control Enzyme PolyADP Ribosyl Transferase Is Eliminated in Cultured Fanconi Anemia Fibroblasts at Confluency *384*, 169–174

Farnesylation

Maurer-Stroh, S., S. Washietl and F. Eisenhaber
Protein Prenyltransferases: Anchor Size, Pseudogenes and Parasites *384*, 977–989

Fibrinogen

Bósze, S., F. Hudecz, P. Igaz, Z. Ortutay, G. Csík, A. Falus and S. Tóth
Interleukin-6 N-Terminal Peptides Modulate the Expression of *jun*B Protooncogene and the Production of Fibrinogen in HepG2 Cells *384*, 409–421

Fibrinogenolysis

Chudzinski-Tavassi, A.M., E. Bermejo, R.E. Rosenstein, F. Faria, M.I. Keller Sarmiento, F. Alberto, M.U. Sampaio and M.A. Lazzari
Nitridergic Platelet Pathway Activation by Hementerin, a Metalloprotease from the Leech *Haementeria depressa* *384*, 1333–1339

Frizzled-related protein

Wong, V.K.W., J.W.P. Yam and W.L.W Hsiao
Cloning and Characterization of the Promoter Region of the Mouse Frizzled-Related Protein 4 Gene *384*, 1147–1154

Fructose-1,6-bisphosphatase

Rakus, D., H. Tillmann, R. Wysocki, S. Ulaszewski, K. Eschrich and A. Dzugaj
Different Sensitivities of Mutants and Chimeric Forms of Human Muscle and Liver Fructose-1,6-Bisphosphatases towards AMP *384*, 51–58

Gastric inhibitory polypeptide

Hinke, S.A., R. Gelling, S. Manhart, F. Lynn, R.A. Pederson, K. Kühn-Wache, F. Rosche, H.-U. Demuth, D. Coy and C.H.S. McIntosh
Structure-Activity Relationships of Glucose-Dependent Insulinotropic Polypeptide (GIP) *384*, 403–407

Gene expression

Angermayr, M., K. Schwerdtfeger and W. Bandlow
A Nucleosome-Free dG-dC-Rich Sequence Element Promotes Constitutive Transcription of the Essential Yeast *RIO1* Gene *384*, 1287–1292

Bukowska, A., J. Tadje, M. Arndt, C. Wolke, T. Kähne, J. Bartsch, J. Faust, K. Neubert, Y. Hashimoto and U. Lendeckel
Transcriptional Regulation of Cytosol and Membrane Alanyl-Aminopeptidase in Human T Cell Subsets *384*, 657–665

Esworthy, R.S., S.W. Binder, J.H. Doroshow and F.-F. Chu
Microflora Trigger Colitis in Mice Deficient in Selenium-Dependent Glutathione Peroxidase and Induce *Gpx2* Gene Expression *384*, 597–607

Farkas, A., P. Tompa and P. Friedrich
Revisiting Ubiquity and Tissue Specificity of Human Calpains *384*, 945–949

Huwiler, A. and J. Pfeilschifter
Nitric Oxide Signalling with a Special Focus on Lipid-Derived Mediators *384*, 1379–1389

Jiang, G. and Q. Wei
Function and Structure of N-Terminal and C-Terminal Domains of Calcineurin B Subunit *384*, 1299–1303

Klan, N., S. Seuter, N. Schnur, M. Jung and D. Steinhilber
Trichostatin A and Structurally Related Histone Deacetylase Inhibitors Induce 5–Lipoxygenase Promoter Activity *384*, 777–785

Kleinert, H., P.M. Schwarz and U. Förstermann
Regulation of the Expression of Inducible Nitric Oxide Synthase *384*, 1343–1364

Luparello, C., F. David, G. Campisi and R. Sirchia
T47–D Cells and Type V Collagen: A Model for the Study of Apoptotic Gene Expression by Breast Cancer Cells *384*, 965–975

Moreno, S.G., G. Laux, M. Brielmeier, G.W. Bornkamm and M. Conrad
Testis-Specific Expression of the Nuclear Form of Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx) *384*, 635–643

Mukudai, Y., S. Kubota and M. Takigawa
Conserved Repressive Regulation of Connective Tissue Growth Factor/Hypertrophic Chondrocyte-Specific Gene 24 (ctgf/hcs24) Enabled by Different Elements and Factors among Vertebrate Species *384*, 1–9

Napieralski, R., B. Kempkes and W. Gutensohn
Evidence for Coordinated Induction and Repression of Ecto-5′-Nucleotidase (CD73) and the A2a Adenosine Receptor in a Human B Cell Line *384*, 483–487

Popp, O., M. Heidinger, L. Ruiz-Heinrich, C. Ries, M. Jochum and S. Gil-Parrado
The Calpastatin-Derived Calpain Inhibitor CP1B Reduces mRNA Expression of Matrix Metalloproteinase-2 and -9 and Invasion by Leukemic THP-1 Cells *384*, 951–958

Steinmüller, L. and G. Thiel
Regulation of Gene Transcription by a Constitutively Active Mutant of Activating Transcription Factor 2 (ATF2) *384*, 667–672

Wenzel, K., S.B. Felix, C. Flachmeier, P. Heere, W. Schulze, I. Grunewald, H. Pankow, A. Hewelt, S. Scherneck, D. Bauer and M.R. Hoehe
Identification and Characterization of KAT, a Novel Gene Preferentially Expressed in Several Human Cancer Cell Lines *384*, 763–775

Wong, V.K.W., J.W.P. Yam and W.L.W Hsiao
Cloning and Characterization of the Promoter Region of the Mouse Frizzled-Related Protein 4 Gene *384*, 1147–1154

Zeis, B., B. Becher, T. Goldmann, R. Clark, E. Vollmer, B. Bölke, I. Bredebusch, T. Lamkemeyer, O. Pinkhaus, R. Pirow and R.J. Paul
Differential Haemoglobin Gene Expression in the Crustacean *Daphnia magna* Exposed to Different Oxygen Partial Pressures *384*, 1133–1145

Zhang, L., C. Lohmann, R. Prändl and F. Schöffl
Heat Stress-Dependent DNA Binding of *Arabidopsis* Heat Shock Transcription Factor HSF1 to Heat Shock Gene Promoters in *Arabidopsis* Suspension Culture Cells *in vivo* *384*, 959–963

Zwicky, R., K. Müntener, G. Csucs, M.B. Goldring and A. Baici
Exploring the Role of 5′ Alternative Splicing and of the 3′-Untranslated Region of Cathepsin B mRNA *384*, 1007–1018

Gene structure

Boissel, J.-P., M. Zelenka, U. Gödtel-Armbrust, T.J. Feuerstein and U. Förstermann
Transcription of Different Exons 1 of the Human Neuronal Nitric Oxide Synthase Gene Is Dynamically Regulated in a Cell- and Stimulus-Specific Manner *384*, 351–362

Frébort, I., M. Šebela, S. Hirota, M. Yamada, H. Tamaki, H. Kumagai, O. Adachi and P. Peč
Gene Organization and Molecular Modeling of Copper Amine Oxidase from *Aspergillus niger*: Re-Evaluation of the Cofactor Structure *384*, 1451–1461

Wenzel, K., S.B. Felix, C. Flachmeier, P. Heere, W. Schulze, I. Grunewald, H. Pankow, A. Hewelt, S. Scherneck, D. Bauer and M.R. Hoehe
Identification and Characterization of KAT, a Novel Gene Preferentially Expressed in Several Human Cancer Cell Lines *384*, 763–775

Wong, V.K.W., J.W.P. Yam and W.L.W Hsiao
Cloning and Characterization of the Promoter Region of the Mouse Frizzled-Related Protein 4 Gene *384*, 1147–1154

Gene transfer

Gleiter, S. and H. Lilie
Cell-Type Specific Targeting and Gene Expression Using a Variant of Polyoma VP1 Virus-Like Particles *384*, 247–255

Plank, C., U. Schillinger, F. Scherer, C. Bergemann, J.-S. Rémy, F. Krötz, M. Anton, J. Lausier and J. Rosenecker
The Magnetofection Method: Using Magnetic Force to Enhance Gene Delivery *384*, 737–747

Gingipain

Kadowaki, T., S. Kitano, A. Baba, R. Takii, M. Hashimoto, N. Katunuma and K. Yamamoto
Isolation and Characterization of a Novel and Potent Inhibitor of Arg-Gingipain from *Streptomyces* sp. Strain FA-70 *384*, 911–920

Gluconeogenesis

Rakus, D., H. Tillmann, R. Wysocki, S. Ulaszewski, K. Eschrich and A. Dzugaj
Different Sensitivities of Mutants and Chimeric Forms of Human

Muscle and Liver Fructose-1,6-Bisphosphatases towards AMP *384*, 51–58

Glutamine cyclotransferase

Schilling, S., S. Manhart, T. Hoffmann, H.-H. Ludwig, C. Wasternack and H.-U. Demuth
Substrate Specificity of Glutaminyl Cyclases from Plants and Animals *384*, 1583–1592

Glutaminyl cyclase

Schilling, S., S. Manhart, T. Hoffmann, H.-H. Ludwig, C. Wasternack and H.-U. Demuth
Substrate Specificity of Glutaminyl Cyclases from Plants and Animals *384*, 1583–1592

Glutathione

Comini, M., U. Menge and L. Flohé
Biosynthesis of Trypanothione in *Trypanosoma brucei brucei* *384*, 653–656

Dickinson, D.A., D.R. Moellering, K.E. Iles, R.P. Patel, A.-L. Levonen, A. Wigley, V.M. Darley-Usmar and H.J. Forman
Cytoprotection against Oxidative Stress and the Regulation of Glutathione Synthesis *384*, 527–537

Dringen, R. and J. Hirrlinger
Glutathione Pathways in the Brain *384*, 505–516

Kretz-Remy, C. and A.-P. Arrigo
Modulation of the Chymotrypsin-Like Activity of the 20S Proteasome by Intracellular Redox Status: Effects of Glutathione Peroxidase-1 Overexpression and Antioxidant Drugs *384*, 589–595

Kwon, Y.-W., H. Masutani, H. Nakamura, Y. Ishii and J.Yodoi
Redox Regulation of Cell Growth and Cell Death *384*, 991–996

Mauri, P., L. Benazzi, L. Flohé, M. Maiorino, P.G. Pietta, S.Pilawa, A. Roveri and F. Ursini
Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS *384*, 575–588

Glutathione peroxidase

Böl, G.-F., N. Jurrmann and R. Brigelius-Flohé
Recruitment of the Interleukin-1 Receptor (IL-1RI)-Associated Kinase IRAK to the IL-1RI Is Redox Regulated *384*, 609–617

Esworthy, R.S., S.W. Binder, J.H. Doroshow and F.-F. Chu
Microflora Trigger Colitis in Mice Deficient in Selenium-Dependent Glutathione Peroxidase and Induce *Gpx2* Gene Expression *384*, 597–607

Kretz-Remy, C. and A.-P. Arrigo
Modulation of the Chymotrypsin-Like Activity of the 20S Proteasome by Intracellular Redox Status: Effects of Glutathione Peroxidase-1 Overexpression and Antioxidant Drugs *384*, 589–595

Mauri, P., L. Benazzi, L. Flohé, M. Maiorino, P.G. Pietta, S.Pilawa, A. Roveri and F. Ursini
Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS *384*, 575–588

Missirlis, F., S. Rahlfs, N. Dimopoulos, H. Bauer, K. Becker, A. Hilliker, J.P. Phillips and H. Jäckle
A Putative Glutathione Peroxidase of *Drosophila* Encodes a Thioredoxin Peroxidase That Provides Resistance against Oxidative Stress But Fails to Complement a Lack of Catalase Activity *384*, 463–472

Miyamoto, Y., Y.H. Koh, Y.S. Park, N. Fujiwara, H. Sakiyama, Y. Misonou, T. Ookawara, K. Suzuki, K. Honke and N. Taniguchi
Oxidative Stress Caused by Inactivation of Glutathione Peroxidase and Adaptive Responses *384*, 567–574

Moreno, S.G., G. Laux, M. Brielmeier, G.W. Bornkamm and M. Conrad
Testis-Specific Expression of the Nuclear Form of Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx) *384*, 635–643

Müller, C., K. Wingler and R. Brigelius-Flohé
3'UTRs of Glutathione Peroxidases Differentially Affect Selenium-Dependent mRNA Stability and Selenocysteine Incorporation Efficiency *384*, 11–18

Wilkinson, S.R. and J.M. Kelly
The Role of Glutathione Peroxidases in Trypanosomatids *384*, 517–525

Glutathione S-transferase

Becker, K., S. Rahlfs, C. Nickel and R.H. Schirmer
Glutathione – Functions and Metabolism in the Malarial Parasite *Plasmodium falciparum* *384*, 551–566

Edalat, M., M.A.A. Persson and B. Mannervik
Selective Recognition of Peptide Sequences by Glutathione Transferases: A Possible Mechanism for Modulation of Cellular Stress-Induced Signaling Pathways *384*, 645–651

Glyceraldehyde-3-phosphate dehydrogenase

Daubenberger, C.A., E.J. Tisdale, M. Curcic, D. Diaz, O. Silvie, D. Mazier, W. Eling, B. Bohrmann, H. Matile and G. Pluschke
The N'-Terminal Domain of Glyceraldehyde-3-Phosphate Dehydrogenase of the Apicomplexan *Plasmodium falciparum* Mediates GTPase Rab2-Dependent Recruitment to Membranes *384*, 1227–1237

Glycosaminoglycan

Müllegger, J., A. Rustom, G. Kreil, H.-H. Gerdes and G. Lepperdinger
'Piggy-Back' Transport of *Xenopus* Hyaluronan Synthase (XHAS1) *via* the Secretory Pathway to the Plasma Membrane *384*, 175–182

Glycosylphosphatidylinsositol

Okumura, Y., M. Nishikawa, P. Cui, M. Shiota, Y. Nakamura, M. Adachi, K. Kitamura, K. Tomita and H. Kido
Cloning and Characterization of a Transmembrane-Type Serine Protease From Rat Kidney, a New Sodium Channel activator *384*, 1483–1495

GTPase

Daubenberger, C.A., E.J. Tisdale, M. Curcic, D. Diaz, O. Silvie, D. Mazier, W. Eling, B. Bohrmann, H. Matile and G. Pluschke
The N'-Terminal Domain of Glyceraldehyde-3-Phosphate Dehydrogenase of the Apicomplexan *Plasmodium falciparum* Mediates GTPase Rab2-Dependent Recruitment to Membranes *384*, 1227–1237

Haptoglobin

Spagnuolo, M.S., L. Cigliano and P. Abrescia
The Binding of Haptoglobin to Apolipoprotein AI: Influence of Hemoglobin and Concanavalin A *384*, 1593–1596

Heat shock protein

Gross, C., D. Hansch, R. Gastpar and G. Multhoff
Interaction of Heat Shock Protein 70 Peptide with NK Cells Involves the NK Receptor CD94 *384*, 267–279

Helicase

Pedrazzi, G., C.Z. Bachrati, N. Selak, I. Studer, M. Petkovic, I.D. Hickson, J. Jiricny and I. Stagljar
The Bloom's Syndrome Helicase Interacts Directly with the Human DNA Mismatch Repair Protein hMSH6 *384*, 1155–1164

Hemagglutinin

Sato, M., S. Yoshida, K. Iida, T. Tomozawa, H. Kido and M. Yamashita
A Novel Influenza A Virus Activating Enzyme from Porcine Lung: Purification and Characterization *384*, 219–227

Heme oxygenase-1

Mostert, V., K.E. Hill, C.D. Ferris and R.F. Burk
Selective Induction of Liver Parenchymal Cell Heme Oxygenase-1 in Selenium-Deficient Rats *384*, 681–687

Hemoglobin

Spagnuolo, M.S., L. Cigliano and P. Abrescia
The Binding of Haptoglobin to Apolipoprotein AI: Influence of Hemoglobin and Concanavalin A *384*, 1593–1596

Zeis, B., B. Becher, T. Goldmann, R. Clark, E. Vollmer, B. Bölke, I. Bredebusch, T. Lamkemeyer, O. Pinkhaus, R. Pirow and R.J. Paul
Differential Haemoglobin Gene Expression in the Crustacean *Daphnia magna* Exposed to Different Oxygen Partial Pressures *384*, 1133–1145

Hensin

Al-Awqati, Q., S. Vijayakumar and J. Takito
Terminal Differentiation of Epithelia *384*, 1255–1258

Hepatitis B virus core protein (HBc)

Kwon, J.A. and H.M. Rho
Transcriptional Repression of the Human *p53* Gene by Hepatitis B Viral Core Protein (HBc) in Human Liver Cells *384*, 203–212

Tan, W.S., M.R. Dyson and K. Murray
Hepatitis B Virus Core Antigen: Enhancement of Its Production in *Escherichia coli*, and Interaction of the Core Particles with the Viral Surface Antigen *384*, 363–371

Hepatitis B virus X protein (HBx)

Stohwasser, R., H.-G. Holzhütter, U. Lehmann, P. Henklein and P.-M. Kloetzel
Hepatitis B Virus HBx Peptide 116–138 and Proteasome Activator PA28 Compete for Binding to the Proteasome α4/MC6 Subunit *384*, 39–49

Histatin

Ruissen, A.L.A., J. Groenink, P. Krijtenberg, E. Walgreen-Weterings, W. van 't Hof, E.C.I. Veerman and A.V. Nieuw Amerongen
Internalisation and Degradation of Histatin 5 by *Candida albicans* *384*, 183–190

Histone acetylation

Klan, N., S. Seuter, N. Schnur, M. Jung and D. Steinhilber
Trichostatin A and Structurally Related Histone Deacetylase Inhibitors Induce 5-Lipoxygenase Promoter Activity *384*, 777–785

Koizume, S., K. Tachibana and M. Shiraishi
Treatment of Tumor Cells with Histone Deacetylase Inhibitors Results in Altered Recruitment of Methyl-CpG Binding Proteins to a Methylated CpG Island *384*, 787–790

Histone protein

Lichota, J. and K.D. Grasser
Interaction of Maize Chromatin-Associated HMG Proteins with Mononucleosomes: Role of Core and Linker Histones *384*, 1019–1027

Polster, J., H. Dithmar and W. Feucht
Are Histones the Targets for Flavan-3-ols (Catechins) in Nuclei? *384*, 997–1006

hnRNP D (AUF1)

Moraes, K.C.M., A.J.C. Quaresma, K. Maehnss and J. Kobarg
Identification and Characterization of Proteins That Selectively Interact with Isoforms of the mRNA Binding Protein AUF1 (hnRNP D) *384*, 25–37

Hsp70

Gross, C., D. Hansch, R. Gastpar and G. Multhoff
Interaction of Heat Shock Protein 70 Peptide with NK Cells Involves the NK Receptor CD94 *384*, 267–279

Zhang, L., C. Lohmann, R. Prändl and F. Schöffl
Heat Stress-Dependent DNA Binding of *Arabidopsis* Heat Shock Transcription Factor HSF1 to Heat Shock Gene Promoters in *Arabidopsis* Suspension Culture Cells *in vivo* *384*, 959–963

Hyaluronan synthase

Müllegger, J., A. Rustom, G. Kreil, H.-H. Gerdes and G. Lepperdinger
'Piggy-Back' Transport of *Xenopus* Hyaluronan Synthase (XHAS1) *via* the Secretory Pathway to the Plasma Membrane *384*, 175–182

Hydrogen peroxide

Bondzio, A., P. Blankenstein and S. Risse
Effects of Hydrogen Peroxide on Bovine Leukemia Virus Expression *384*, 1063–1072

IgM secretion

Tagliavacca, L., T. Anelli, C. Fagioli, A. Mezghrani, E. Ruffato and R. Sitia
The Making of a Professional Secretory Cell: Architectural and Functional Changes in the ER during B Lymphocyte Plasma Cell Differentiation *384*, 1273–1277

Incretin

Hinke, S.A., R. Gelling, S. Manhart, F. Lynn, R.A. Pederson, K. Kühn-Wache, F. Rosche, H.-U. Demuth, D. Coy and C.H.S. McIntosh
Structure-Activity Relationships of Glucose-Dependent Insulinotropic Polypeptide (GIP) *384*, 403–407

Insulin

Carvalheira, J.B.C., E.B. Ribeiro, F. Folli, L.A. Velloso and M.J.A. Saad
Interaction between Leptin and Insulin Signaling Pathways Differentially Affects JAK-STAT and PI 3-Kinase-Mediated Signaling in Rat Liver *384*, 151–159

Green, B.D., V.A. Gault, N. Irwin, M.H. Mooney, C.J. Bailey, P. Harriott, B. Greer, P.R. Flatt and F.P.M. O'Harte
Metabolic Stability, Receptor Binding, cAMP Generation, Insulin Secretion and Antihyperglycaemic Activity of Novel N-Terminal Glu^9-Substituted Analogues of Glucagon-Like Peptide-1 *384*, 1543–1551

Guo, Z.-Y., Y.-H. Tang, S. Wang and Y.-M. Feng
Contribution of the Absolutely Conserved B8Gly to the Foldability of Insulin *384*, 805–809

Integrin

Al-Fakhri, N., T. Chavakis, T. Schmidt-Wöll, B. Huang, S.M. Cherian, Y.V. Bobryshev, R.S.A. Lord, N. Katz and K.T. Preissner
Induction of Apoptosis in Vascular Cells by Plasminogen Activator Inhibitor-1 and High Molecular Weight Kininogen Correlates with Their Anti-Adhesive Properties *384*, 423–435

Hapke, S., H. Kessler, B. Luber, A. Benge, P. Hutzler, H. Höfler, M. Schmitt and U. Reuning
Ovarian Cancer Cell Proliferation and Motility Is Induced by Engagement of Integrin $\alpha v\beta 3$/Vitronectin Interaction *384*, 1073–1083

Reuning, U., V. Magdolen, S. Hapke and M. Schmitt
Molecular and Functional Interdependence of the Urokinase-Type Plasminogen Activator System with Integrins *384*, 1119–1131

Interleukin

David, R., Z. Machova and A.G. Beck-Sickinger
Semisynthesis and Application of Carboxyfluorescein-Labelled Biologically Active Human Interleukin-8 *384*, 1619–1630

Böl, G.-F., N. Jurrmann and R. Brigelius-Flohé
Recruitment of the Interleukin-1 Receptor (IL-1RI)-Associated Kinase IRAK to the IL-1RI Is Redox Regulated *384*, 609–617

Bősze, S., F. Hudecz, P. Igaz, Z. Ortutay, G. Csik, A. Falus and S. Tóth
Interleukin-6 N-Terminal Peptides Modulate the Expression of *jun*B Protooncogene and the Production of Fibrinogen in HepG2 Cells *384*, 409–421

Intestain

Gruden, K., T. Popovič, N. Cimerman, I. Križaj and B. Štrukelj
Diverse Enzymatic Specificities of Digestive Proteases, 'Intestains', Enable Colorado Potato Beetle Larvae to Counteract the Potato Defence Mechanism *384*, 305–310

Iron metabolism

Hubmacher, D., B.F. Matzanke and S. Anemüller
Effects of Iron Limitation on the Respiratory Chain and the Membrane Cytochrome Pattern of the Euryarchaeon *Halobacterium salinarum 384*, 1565–1573

Iron-sulfur cluster

Cereda, A., F. Forlani, S. Iametti, R. Bernhardt, P. Ferranti, G. Picariello, S. Pagani and F. Bonomi
Molecular Recognition between *Azotobacter vinelandii* Rhodanese and a Sulfur Acceptor Protein *384*, 1473–1481

Hubmacher, D., B.F. Matzanke and S. Anemüller
Effects of Iron Limitation on the Respiratory Chain and the Membrane Cytochrome Pattern of the Euryarchaeon *Halobacterium salinarum 384*, 1565–1573

Jasmonate

Fliegmann, J., G. Schüler, W. Boland, J. Ebel and A. Mithöfer
The Role of Octadecanoids and Functional Mimics in Soybean Defense Responses *384*, 437–446

Kallikrein

Andrade, S.A., E.M. Santomauro-Vaz, A.R. Lopes, A.M. Chudzinski-Tavassi, M.A. Juliano, W.R. Terra, M.U. Sampaio, C.A.M. Sampaio and M.L.V. Oliva
Bauhinia Proteinase Inhibitor-Based Synthetic Fluorogenic Substrates for Enzymes Isolated from Insect Midgut and Caterpillar Bristles *384*, 489–492

Dulinski, R., P. Suder, I. Guevara-Lora, M. Rąpała-Kozik, J. Potempa, J. Silberring, T. Imamura, J. Travis and A. Kozik
Attenuated Kinin Release from Human Neutrophil Elastase-Pretreated Kininogens by Tissue and Plasma Kallikreins *384*, 929–937

Kinin receptor

Kuebler, J.F., E. Schremmer-Danninger, K.D. Bhoola, A.A. Roscher, K. Messmer and T.F. Hoffmann
Kinin-B1 Receptors in Ischaemia-Induced Pancreatitis: Functional Importance and Cellular Localisation *384*, 1311–1319

Laminin

Simoneau, S., S. Haïk, C. Leucht, D. Dormont, J.-P. Deslys, S. Weiss and C. Lasmézas
Different Isoforms of the Non-Integrin Laminin Receptor Are Present in Mouse Brain and Bind PrP *384*, 243–246

Legumain

James, K.E., M.G. Götz, C.R. Caffrey, E. Hansell, W. Carter, A.J. Barrett, J.H. McKerrow and J.C. Powers
Aza-Peptide Epoxides: Potent and Selective Inhibitors of *Schistosoma mansoni* and Pig Kidney Legumains (Asparaginyl Endopeptidases) *384*, 1613–1618

Loak, K., D.N. Li, B. Manoury, J. Billson, F. Morton, E. Hewitt and C. Watts
Novel Cell-Permeable Acyloxymethylketone Inhibitors of Asparaginyl Endopeptidase *384*, 1239–1246

Leptin

Carvalheira, J.B.C., E.B. Ribeiro, F. Folli, L.A. Velloso and M.J.A. Saad
Interaction between Leptin and Insulin Signaling Pathways Differentially Affects JAK-STAT and PI 3–Kinase-Mediated Signaling in Rat Liver *384*, 151–159

Leucyl aminopeptidase

Jösch, C., L.-O. Klotz and H. Sies
Identification of Cytosolic Leucyl Aminopeptidase (EC 3.4.11.1) as the Major Cysteinylglycine-Hydrolysing Activity in Rat Liver *384*, 213–218

Lipid raft

Shogomori, H. and D.A. Brown
Use of Detergents to Study Membrane Rafts: The Good, the Bad, and the Ugly *384*, 1259–1263

Lipopolysaccharide

Le Page, C. and J. Wietzerbin
Modulation of the Activation of Extracellular Signal-Regulated Kinase (ERK) and the Production of Inflammatory Mediators by ADP-Ribosylation Inhibitors *384*, 1509–1513

Lipoxygenase

Klan, N., S. Seuter, N. Schnur, M. Jung and D. Steinhilber
Trichostatin A and Structurally Related Histone Deacetylase Inhibitors Induce 5–Lipoxygenase Promoter Activity *384*, 777–785

Lysosome

Dolenc, I. and M. Mihelič
Purification and Primary Structure Determination of Human Lysosomal Dipeptidase *384*, 317–320

Kölzer, M., C. Arenz, K. Ferlinz, N. Werth, H. Schulze, R. Klingenstein and K. Sandhoff
Phosphatidylinositol-3,5–Bisphosphate Is a Potent and Selective Inhibitor of Acid Sphingomyelinase *384*, 1293–1298

Magnetofection

Plank, C., U. Schillinger, F. Scherer, C. Bergemann, J.-S. Rémy, F. Krötz, M. Anton, J. Lausier and J. Rosenecker
The Magnetofection Method: Using Magnetic Force to Enhance Gene Delivery *384*, 737–747

Malaria

Bermúdez, A., G. Cifuentes, F. Guzmán, L.M. Salazar and M.E. Patarroyo
Immunogenicity and Protectivity of *Plasmodium falciparum* EBA-175 Peptide and Its Analog Is Associated with α-Helical Region Shortening and Displacement *384*, 1443 – 1450

Lozano, J.M., M.P. Alba, M. Vanegas, Y. Silva, J.L. Torres-Castellanos and M.E. Patarroyo
MSP-1 Malaria Pseudopeptide Analogs: Biological and Immunological Significance and Three-Dimensional Structure *384*, 71 – 82

MAP kinase

Le Page, C. and J. Wietzerbin
Modulation of the Activation of Extracellular Signal-Regulated Kinase (ERK) and the Production of Inflammatory Mediators by ADP-Ribosylation Inhibitors *384*, 1509 – 1513

Wu, Y., Z. Chen and A. Ullrich
EGFR and FGFR Signaling through FRS2 Is Subject to Negative Feedback Control by ERK1/2 *384*, 1215 – 1226

Melanoma

Musumarra, G., V. Barresi, D.F. Condorelli and S. Scirè
A Bioinformatic Approach to the Identification of Candidate Genes for the Development of New Cancer Diagnostics *384*, 321 – 327

Menadione

Böl, G.-F., N. Jurrmann and R. Brigelius-Flohé
Recruitment of the Interleukin-1 Receptor (IL-1RI)-Associated Kinase IRAK to the IL-1RI Is Redox Regulated *384*, 609 – 617

Meprin

Becker, C., M.-N. Kruse, K.A. Slotty, D. Köhler, J.R. Harris, S. Rösmann, E.E. Sterchi and W. Stöcker
Differences in the Activation Mechanism between the α and β Subunits of Human Meprin *384*, 825 – 831

Merozoite surface protein-1 (MSP-1)

Lozano, J.M., M.P. Alba, M. Vanegas, Y. Silva, J.L. Torres-Castellanos and M.E. Patarroyo
MSP-1 Malaria Pseudopeptide Analogs: Biological and Immunological Significance and Three-Dimensional Structure *384*, 71 – 82

Microcirculation

Kuebler, J.F., E. Schremmer-Danninger, K.D. Bhoola, A.A. Roscher, K. Messmer and T.F. Hoffmann
Kinin-B1 Receptors in Ischaemia-Induced Pancreatitis: Functional Importance and Cellular Localisation *384*, 1311 – 1319

Moenomycin A

Betat, H., S. Vogel, M. Struhalla, H.-H. Förster, M. Famulok, P. Welzel and U. Hahn
Aptamers That Recognize the Lipid Moiety of the Antibiotic Moenomycin A *384*, 1497 – 1500

Multidrug resistance protein

Dringen, R. and J. Hirrlinger
Glutathione Pathways in the Brain *384*, 505 – 516

Flęgo, M., V. Mennella, F. Moretti, F. Poloni, M.L. Dupuis, A. Ascione, S. Barca, F. Felici and M. Cianfriglia
Identification by Phage Display of the Linear Continuous MRPr1 Epitope in the Multidrug Resistance-Associated Protein (MRP1) *384*, 139 – 142

Nematode

Ndjonka, D., A. Da'dara, R.D. Walter and K. Lüersen
Caenorhabditis elegans *S*-Adenosylmethionine Decarboxylase Is Highly Stimulated by Putrescine But Exhibits a Low Specificity for Activator Binding *384*, 83 – 91

Ndjonka, D., Y. Zou, X. Bi, P. Woster, R.D. Walter and K. Lüersen
The Activator-Binding Site of *Onchocerca volvulus* *S*-Adenosylmethionine Decarboxylase, a Potential Drug Target *384*, 1195 – 1201

NF-κB

Bondzio, A., P. Blankenstein and S. Risse
Effects of Hydrogen Peroxide on Bovine Leukemia Virus Expression *384*, 1063 – 1072

Kontou, M., C. Adelfalk, M. Hirsch-Kauffmann and M. Schweiger
Suboptimal Action of NF-κB in Fanconi Anemia Cells Results from Low Levels of Thioredoxin *384*, 1501 – 1507

Kröncke, K.-D.
Nitrosative Stress and Transcription *384*, 1365 – 1377

Nitric oxide (NO)

Chudzinski-Tavassi, A.M., E. Bermejo, R.E. Rosenstein, F. Faria, M.I. Keller Sarmiento, F. Alberto, M.U. Sampaio and M.A. Lazzari
Nitridergic Platelet Pathway Activation by Hementerin, a Metalloprotease from the Leech *Haementeria depressa* *384*, 1333 – 1339

Dickinson, D.A., D.R. Moellering, K.E. Iles, R.P. Patel, A.-L. Levonen, A. Wigley, V.M. Darley-Usmar and H.J. Forman
Cytoprotection against Oxidative Stress and the Regulation of Glutathione Synthesis *384*, 527 – 537

Huwiler, A. and J. Pfeilschifter
Nitric Oxide Signalling with a Special Focus on Lipid-Derived Mediators *384*, 1379 – 1389

Kröncke, K.-D.
Nitrosative Stress and Transcription *384*, 1365 – 1377

Miyamoto, Y., Y.H. Koh, Y.S. Park, N. Fujiwara, H. Sakiyama, Y. Misonou, T. Ookawara, K. Suzuki, K. Honke and N. Taniguchi
Oxidative Stress Caused by Inactivation of Glutathione Peroxidase and Adaptive Responses *384*, 567 – 574

Nitric oxide synthase, inducible (iNOS)

Kleinert, H., P.M. Schwarz and U. Förstermann
Regulation of the Expression of Inducible Nitric Oxide Synthase *384*, 1343 – 1364

Nitrosative stress

Kröncke, K.-D.
Nitrosative Stress and Transcription *384*, 1365 – 1377

Nitrotyrosine

Buchczyk, D.P., T. Grune, H. Sies and L.-O. Klotz
Modifications of Glyceraldehyde-3-Phosphate Dehydrogenase Induced by Increasing Concentrations of Peroxynitrite: Early Recognition by 20S Proteasome *384*, 237 – 241

Nucleosome

Lichota, J. and K.D. Grasser
Interaction of Maize Chromatin-Associated HMG Proteins with Mononucleosomes: Role of Core and Linker Histones *384*, 1019 – 1027

Ovarian Cancer

Hantke, B., N. Harbeck, B. Schmalfeldt, I. Claes, O. Hiller, M.-O. Luther, A. Welk, W. Kuhn, M. Schmitt, H. Tschesche and B. Muehlenweg
Clinical Relevance of Matrix Metalloproteinase-13 Determined with a New Highly Specific and Sensitive ELISA in Ascitic Fluid of Advanced Ovarian Carcinoma Patients *384*, 1247 – 1251

Hapke, S., H. Kessler, B. Luber, A. Benge, P. Hutzler, H. Höfler, M. Schmitt and U. Reuning
Ovarian Cancer Cell Proliferation and Motility Is Induced by Engagement of Integrin αvβ3/Vitronectin Interaction *384*, 1073 – 1083

Krol, J., S. Sato, P. Rettenberger, I. Assfalg-Machleidt, M. Schmitt, V. Magdolen and U. Magdolen
Novel Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1085 – 1096

Krol, J., C. Kopitz, A. Kirschenhofer, M. Schmitt, U. Magdolen, A. Krüger and V. Magdolen
Inhibition of Intraperitoneal Tumor Growth of Human Ovarian Cancer Cells by Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1097 – 1102

Siewiński, M., Y. Saleh, A. Popiela, P. Ziółkowski, M. Jeleń and M. Gryboś
Expression of High Molecular Weight Cysteine Proteinase Inhibitor in Ovarian Cancer Tissues: Regulation of Cathepsin B Expression by Placental CPI *384*, 1103 – 1107

Oxidative stress

Becker, K., S. Rahlfs, C. Nickel and R.H. Schirmer
Glutathione – Functions and Metabolism in the Malarial Parasite *Plasmodium falciparum* *384*, 551 – 566

Dickinson, D.A., D.R. Moellering, K.E. Iles, R.P. Patel, A.-L. Levonen, A. Wigley, V.M. Darley-Usmar and H.J. Forman
Cytoprotection against Oxidative Stress and the Regulation of Glutathione Synthesis *384*, 527 – 537

Dringen, R. and J. Hirrlinger
Glutathione Pathways in the Brain *384*, 505 – 516

Kim, C.H., J.H. Kim, J. Lee, C.Y. Hsu and Y.S. Ahn
Thiol Antioxidant Reversal of Pyrrolidine Dithiocarbamate-Induced Reciprocal Regulation of AP-1 and NF-κB *384*, 143 – 150

Kontou, M., C. Adelfalk, M. Hirsch-Kauffmann and M. Schweiger
Suboptimal Action of NF-κB in Fanconi Anemia Cells Results from Low Levels of Thioredoxin *384*, 1501 – 1507

Kwon, Y.-W., H. Masutani, H. Nakamura, Y. Ishii and J.Yodoi
Redox Regulation of Cell Growth and Cell Death *384*, 991 – 996

Missirlis, F., S. Rahlfs, N. Dimopoulos, H. Bauer, K. Becker, A. Hilliker, J.P. Phillips and H. Jäckle
A Putative Glutathione Peroxidase of *Drosophila* Encodes a Thioredoxin Peroxidase That Provides Resistance against Oxidative Stress But Fails to Complement a Lack of Catalase Activity *384*, 463 – 472

Miyamoto, Y., Y.H. Koh, Y.S. Park, N. Fujiwara, H. Sakiyama, Y. Misonou, T. Ookawara, K. Suzuki, K. Honke and N. Taniguchi
Oxidative Stress Caused by Inactivation of Glutathione Peroxidase and Adaptive Responses *384*, 567 – 574

Oxygen equilibrium curve

Zeis, B., B. Becher, T. Goldmann, R. Clark, E. Vollmer, B. Bölke, I. Bredebusch, T. Lamkemeyer, O. Pinkhaus, R. Pirow and R.J. Paul
Differential Haemoglobin Gene Expression in the Crustacean *Daphnia magna* Exposed to Different Oxygen Partial Pressures *384*, 1133 – 1145

Penetratin

Gil-Parrado, S., I. Assfalg-Machleidt, F. Fiorino, D. Deluca, D. Pfeiler, N. Schaschke, L. Moroder and W. Machleidt
Calpastatin Exon 1B-Derived Peptide, a Selective Inhibitor of Calpain: Enhancing Cell Permeability by Conjugation with Penetratin *384*, 395 – 402

Peptide bond formation

Yonath, A.
Ribosomal Tolerance and Peptide Bond Formation *384*, 1411 – 1419

Peptide, cell-penetrating

Elmquist, A. and Ü. Langel
In vitro Uptake and Stability Study of *p*VEC and Its All-D Analog *384*, 387 – 393

Peptidyl prolyl *cis/trans* isomerase (PPI)

Helbig, J.H., B. König, H. Knospe, B. Bubert, C. Yu, C.P. Lück, A. Riboldi-Tunnicliffe, R. Hilgenfeld, E. Jacobs, J. Hacker and G. Fischer
The PPIase Active Site of *Legionella pneumophila* Mip Protein Is Involved in the Infection of Eukaryotic Host Cells *384*, 125 – 137

Peroxidase

Zorn, H., S. Langhoff, M. Scheibner, M. Nimtz and R.G. Berger
A Peroxidase from *Lepista irina* Cleaves β,β-Carotene to Flavor Compounds *384*, 1049 – 1056

Peroxiredoxin

Budde, H., L. Flohé, H.-J. Hecht, B. Hofmann, M. Stehr, J. Wissing and H. Lünsdorf
Kinetics and Redox-Sensitive Oligomerisation Reveal Negative Subunit Cooperativity in Tryparedoxin Peroxidase of *Trypanosoma brucei brucei* *384*, 619 – 633

Budde, H., L. Flohé, B. Hofmann and M. Nimtz
Verification of the Interaction of a Tryparedoxin Peroxidase with Tryparedoxin by ESI-MS/MS *384*, 1305 – 1309

Krauth-Siegel, R.L., S.K. Meiering and H. Schmidt
The Parasite-Specific Trypanothione Metabolism of Trypanosoma and Leishmania *384*, 539 – 549

Peroxynitrite

Buchczyk, D.P., T. Grune, H. Sies and L.-O. Klotz
Modifications of Glyceraldehyde-3 –Phosphate Dehydrogenase Induced by Increasing Concentrations of Peroxynitrite: Early Recognition by 20S Proteasome *384*, 237 – 241

Miyamoto, Y., Y.H. Koh, Y.S. Park, N. Fujiwara, H. Sakiyama, Y. Misonou, T. Ookawara, K. Suzuki, K. Honke and N. Taniguchi
Oxidative Stress Caused by Inactivation of Glutathione Peroxidase and Adaptive Responses *384*, 567 – 574

Phage display

Edalat, M., M.A.A. Persson and B. Mannervik
Selective Recognition of Peptide Sequences by Glutathione Transferases: A Possible Mechanism for Modulation of Cellular Stress-Induced Signaling Pathways *384*, 645 – 651

Flego, M., V. Mennella, F. Moretti, F. Poloni, M.L. Dupuis, A. Ascione, S. Barca, F. Felici and M. Cianfriglia
Identification by Phage Display of the Linear Continuous MRPr1 Epitope in the Multidrug Resistance-Associated Protein (MRP1) *384*, 139 – 142

Phospholipase

Gregory, P., A. Ziemiecki, G. Zürcher, U. Brodbeck and P. Bütikofer
Anti-Mouse GPI-PLD Antisera Highlight Structural Differences between Murine and Bovine GPI-PLDs *384*, 1575 – 1582

Plasma cell

Tagliavacca, L., T. Anelli, C. Fagioli, A. Mezghrani, E. Ruffato and R. Sitia
The Making of a Professional Secretory Cell: Architectural and Functional Changes in the ER during B Lymphocyte Plasma Cell Differentiation *384*, 1273 – 1277

Plasmin

Becker, C., M.-N. Kruse, K.A. Slotty, D. Köhler, J.R. Harris, S. Rösmann, E.E. Sterchi and W. Stöcker
Differences in the Activation Mechanism between the α and β Subunits of Human Meprin *384*, 825 – 831

Plasminogen activator, tissue-type

Schuh, T., R. Besch, E. Braungart, M.J. Flaig, K. Douwes, C.A. Sander, V. Magdolen, C. Probst, K. Wosikowski and K. Degitz
Protease Inhibitors Prevent Plasminogen-Mediated, But Not Pemphigus Vulgaris-Induced, Acantholysis in Human Epidermis *384*, 311 – 315

Plasminogen activator, urokinase-type

Banke, I.J., M.J.E. Arlt, C. Pennington, C. Kopitz, T. Steinmetzer, A. Schweinitz, B. Gansbacher, J.P. Quigley, D.R. Edwards, J. Stürzebecher and A. Krüger
Increase of Anti-Metastatic Efficacy by Selectivity- But Not Affinity-Optimization of Synthetic Serine Protease Inhibitors *384*, 1515 – 1525

Fuchs, T. and H. Allgayer
Transcriptional Regulation of the Urokinase Receptor (u-PAR) - A Central Molecule of Invasion and Metastasis *384*, 755 – 761

Kobayashi, H., M. Suzuki, Y. Hirashima and T. Terao
The Protease Inhibitor Bikunin, a Novel Anti-Metastatic Agent *384*, 749 – 754

Krol, J., S. Sato, P. Rettenberger, I. Assfalg-Machleidt, M. Schmitt, V. Magdolen and U. Magdolen
Novel Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1085 – 1096

Krol, J., C. Kopitz, A. Kirschenhofer, M. Schmitt, U. Magdolen, A. Krüger and V. Magdolen
Inhibition of Intraperitoneal Tumor Growth of Human Ovarian Cancer Cells by Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1097 – 1102

Liang, O.D., T. Chavakis, M. Linder, K. Bdeir, A. Kuo and K.T. Preissner
Binding of Urokinase Plasminogen Activator to gp130 *via* a Putative Urokinase-Binding Consensus Sequence *384*, 229 – 236

Reuning, U., V. Magdolen, S. Hapke and M. Schmitt
Molecular and Functional Interdependence of the Urokinase-Type Plasminogen Activator System with Integrins *384*, 1119 – 1131

Schuh, T., R. Besch, E. Braungart, M.J. Flaig, K. Douwes, C.A. Sander, V. Magdolen, C. Probst, K. Wosikowski and K. Degitz
Protease Inhibitors Prevent Plasminogen-Mediated, But Not Pemphigus Vulgaris-Induced, Acantholysis in Human Epidermis *384*, 311 – 315

Poly(ADP-ribose)

Ramirez, M.H., C. Adelfalk, M. Kontou, M. Hirsch-Kauffmann and M. Schweiger
The Cellular Control Enzyme PolyADP Ribosyl Transferase Is Eliminated in Cultured Fanconi Anemia Fibroblasts at Confluency *384*, 169 – 174

Polyomavirus

Gleiter, S. and H. Lilie
Cell-Type Specific Targeting and Gene Expression Using a Variant of Polyoma VP1 Virus-Like Particles *384*, 247 – 255

Polymerase chain reaction, allele-specific

Tews, B., J. Wilhelm, D. Summerer, M. Strerath, A. Marx, P. Friedhoff, A. Pingoud and M. Hahn
Application of the C4′-Alkylated Deoxyribose Primer System (CAPS) in Allele-Specific Real-Time PCR for Increased Selectivity in Discrimination of Single Nucleotide Sequence Variants *384*, 1533 – 1541

Prenylation

Maurer-Stroh, S., S. Washietl and F. Eisenhaber
Protein Prenyltransferases: Anchor Size, Pseudogenes and Parasites *384*, 977 – 989

Prions

Hundt, C., S. Gauczynski, C. Leucht, M.L. Riley, S. Weiss
Intra- and Interspecies Interactions between Prion Proteins and Effects of Mutations and Polymorphisms *384*, 791 – 803

Hutter, G., F.L. Heppner and A. Aguzzi
No Superoxide Dismutase Activity of Cellular Prion Protein *in vivo* *384*, 1279 – 1285

Simoneau, S., S. Haïk, C. Leucht, D. Dormont, J.-P. Deslys, S. Weiss and C. Lasmézas
Different Isoforms of the Non-Integrin Laminin Receptor Are Present in Mouse Brain and Bind PrP *384*, 243 – 246

Protease, aspartate

Barrett, A.J., D.P. Tolle and N.D. Rawlings
Managing Peptidases in the Genomic Era *384*, 873 – 882

Protease, cysteine

Barrett, A.J., D.P. Tolle and N.D. Rawlings
Managing Peptidases in the Genomic Era *384*, 873 – 882

Dodt, J. and J. Reichwein
Human Cathepsin H: Deletion of the Mini-Chain Switches Substrate Specificity from Aminopeptidase to Endopeptidase *384*, 1327 – 1332

Gruden, K., T. Popovič, N. Cimerman, I. Križaj and B. Štrukelj
Diverse Enzymatic Specificities of Digestive Proteases, 'Intestains', Enable Colorado Potato Beetle Larvae to Counteract the Potato Defence Mechanism *384*, 305 – 310

Hatano, K.-i., M. Kojima, M. Tanokura and K. Takahashi
Nuclear Magnetic Resonance Studies on the pK_a Values and Interaction of Ionizable Groups in Bromelain Inhibitor VI from Pineapple Stem *384*, 93 – 104

James, K.E., M.G. Götz, C.R. Caffrey, E. Hansell, W. Carter, A.J. Barrett, J.H. McKerrow and J.C. Powers
Aza-Peptide Epoxides: Potent and Selective Inhibitors of *Schistosoma mansoni* and Pig Kidney Legumains (Asparaginyl Endopeptidases) *384*, 1613 – 1618

Krol, J., S. Sato, P. Rettenberger, I. Assfalg-Machleidt, M. Schmitt, V. Magdolen and U. Magdolen
Novel Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1085 – 1096

Krol, J., C. Kopitz, A. Kirschenhofer, M. Schmitt, U. Magdolen, A. Krüger and V. Magdolen
Inhibition of Intraperitoneal Tumor Growth of Human Ovarian Cancer Cells by Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1097 – 1102

Lohmüller, T., D. Wenzler, S. Hagemann, W. Kieß, C. Peters, T. Dandekar and T. Reinheckel
Toward Computer-Based Cleavage Site Prediction of Cysteine Endopeptidases *384*, 899 – 909

Nägler, D.K. and R. Ménard
Family C1 Cysteine Proteases: Biological Diversity or Redundancy? *384*, 837 – 843

Neuhof, C., O. Götte, S. Trumbeckaite, M. Attenberger, N. Kuzkaya, F. Gellerich, A. Möller, W. Lubisch, M. Speth, H. Tillmanns and H. Neuhof
A Novel Water-Soluble and Cell-Permeable Calpain Inhibitor Protects Myocardial and Mitochondrial Function in Post-ischemic Reperfusion *384*, 1597 – 1603

Ryan, C.A. and G.S. Salvesen
Caspases and Neuronal Development *384*, 855 – 861

Serveau, C., A. Boulangé, F. Lecaille, F. Gauthier, E. Authié and G. Lalmanach
Procongopain from *Trypanosoma Congolense* Is Processed at Basic pH: An Unusual Feature among Cathepsin L-like Cysteine Proteases *384*, 921 – 927

Werle, B., K. Sauckel, C.-M. Nathanson, M. Bjarnadottir, E. Spiess, W. Ebert and M. Abrahamson
Cystatins C, E/M and F in Human Pleural Fluids of Patients with Neoplastic and Inflammatory Lung Disorders *384*, 281 – 287

Yan, S. and B.F. Sloane
Molecular Regulation of Human Cathepsin B: Implication in Pathologies *384*, 845 – 854

Protease, HIV

Hoffmann, D., I. Assfalg-Machleidt, H. Nitschko, K. von der Helm, U. Koszinowski and W. Machleidt
Rapid Enzymatic Test for Phenotypic HIV Protease Drug Resistance 384, 1109 – 1117

Protease inhibitor, antitrypsin

Ng, T.B., S.K. Lam and W.P. Fong
A Homodimeric Sporamin-Type Trypsin Inhibitor with Antiproliferative, HIV Reverse Transcriptase-Inhibitory and Antifungal Activities from Wampee *(Clausena lansium)* Seeds *384*, 289 – 293

Protease inhibitor, cystatin

Bervar, A., I. Zajc, N. Sever, N. Katunuma, B.F. Sloane and T.T. Lah
Invasiveness of Transformed Human Breast Epithelial Cell Lines Is Related to Cathepsin B and Inhibited by Cysteine Proteinase Inhibitors *384*, 447 – 455

Werle, B., K. Sauckel, C.-M. Nathanson, M. Bjarnadottir, E. Spiess, W. Ebert and M. Abrahamson
Cystatins C, E/M and F in Human Pleural Fluids of Patients with Neoplastic and Inflammatory Lung Disorders *384*, 281 – 287

Protease inhibitor, Kunitz-type

Kobayashi, H., M. Suzuki, Y. Hirashima and T. Terao
The Protease Inhibitor Bikunin, a Novel Anti-Metastatic Agent *384*, 749 – 754

Neuhof, C., M.L.V. Oliva, D. Maybauer, M. Maybauer, C. de Oliveira, M.U. Sampaio, C.A.M. Sampaio and H. Neuhof
Effect of Plant Kunitz Inhibitors from *Bauhinia bauhinioides* and *Bauhinia rufa* on Pulmonary Edema Caused by Activated Neutrophils *384*, 939 – 944

Protease inhibitor, WSCI

Poerio, E., S. Di Gennaro, A. Di Maro, F. Farisei, P. Ferranti and A. Parente
Primary Structure and Reactive Site of a Novel Wheat Proteinase Inhibitor of Subtilisin and Chymotrypsin *384*, 295 – 304

Protease, metal ion-requiring

Barrett, A.J., D.P. Tolle and N.D. Rawlings
Managing Peptidases in the Genomic Era *384*, 873 – 882

Bode, W. and K. Maskos
Structural Basis of the Matrix Metalloproteinases and Their Physiological Inhibitors, the Tissue Inhibitors of Metalloproteinases *384*, 863 – 872

Chudzinski-Tavassi, A.M., E. Bermejo, R.E. Rosenstein, F. Faria, M.I. Keller Sarmiento, F. Alberto, M.U. Sampaio and M.A. Lazzari
Nitridergic Platelet Pathway Activation by Hementerin, a Metalloprotease from the Leech *Haementeria depressa 384*, 1333 – 1339

Hantke, B., N. Harbeck, B. Schmalfeldt, I. Claes, O. Hiller, M.-O. Luther, A. Welk, W. Kuhn, M. Schmitt, H. Tschesche and B. Muehlenweg
Clinical Relevance of Matrix Metalloproteinase-13 Determined with a New Highly Specific and Sensitive ELISA in Ascitic Fluid of Advanced Ovarian Carcinoma Patients *384*, 1247 – 1251

Krol, J., S. Sato, P. Rettenberger, I. Assfalg-Machleidt, M. Schmitt, V. Magdolen and U. Magdolen
Novel Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1085 – 1096

Krol, J., C. Kopitz, A. Kirschenhofer, M. Schmitt, U. Magdolen, A. Krüger and V. Magdolen
Inhibition of Intraperitoneal Tumor Growth of Human Ovarian Cancer Cells by Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1097 – 1102

Protease, serine

Banke, I.J., M.J.E. Arlt, C. Pennington, C. Kopitz, T. Steinmetzer, A. Schweinitz, B. Gansbacher, J.P. Quigley, D.R. Edwards, J. Stürzebecher and A. Krüger
Increase of Anti-Metastatic Efficacy by Selectivity- But Not Affinity-Optimization of Synthetic Serine Protease Inhibitors *384*, 1515 – 1525

Barrett, A.J., D.P. Tolle and N.D. Rawlings
Managing Peptidases in the Genomic Era *384*, 873 – 882

Bhatt, A.S., T. Takeuchi, B. Ylstra, D. Ginzinger, D. Albertson, M.A. Shuman and C.S. Craik
Quantitation of Membrane Type Serine Protease 1 (MT-SP1) in Transformed and Normal Cells *384*, 257 – 266

Krol, J., S. Sato, P. Rettenberger, I. Assfalg-Machleidt, M. Schmitt, V. Magdolen and U. Magdolen
Novel Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1085 – 1096

Krol, J., C. Kopitz, A. Kirschenhofer, M. Schmitt, U. Magdolen, A. Krüger and V. Magdolen
Inhibition of Intraperitoneal Tumor Growth of Human Ovarian Cancer Cells by Bi- and Trifunctional Inhibitors of Tumor-Associated Proteolytic Systems *384*, 1097 – 1102

Okumura, Y., M. Nishikawa, P. Cui, M. Shiota, Y. Nakamura, M. Adachi, K. Kitamura, K. Tomita and H. Kido
Cloning and Characterization of a Transmembrane-Type Serine Protease From Rat Kidney, a New Sodium Channel activator *384*, 1483 – 1495

Poerio, E., S. Di Gennaro, A. Di Maro, F. Farisei, P. Ferranti and A. Parente
Primary Structure and Reactive Site of a Novel Wheat Proteinase Inhibitor of Subtilisin and Chymotrypsin *384*, 295 – 304

Sato, M., S. Yoshida, K. Iida, T. Tomozawa, H. Kido and M. Yamashita
A Novel Influenza A Virus Activating Enzyme from Porcine Lung: Purification and Characterization *384*, 219 – 227

Selwood, T., K.C. Elrod and N.M. Schechter
Potent Bivalent Inhibition of Human Tryptase-β by a Synthetic Inhibitor *384*, 1605 – 1612

Wang, H. and G. Reiser
Thrombin Signaling in the Brain: The Role of Protease-Activated Receptors *384*, 193 – 202

Proteasome

Buchczyk, D.P., T. Grune, H. Sies and L.-O. Klotz
Modifications of Glyceraldehyde-3-Phosphate Dehydrogenase Induced by Increasing Concentrations of Peroxynitrite: Early Recognition by 20S Proteasome *384*, 237 – 241

Kretz-Remy, C. and A.-P. Arrigo
Modulation of the Chymotrypsin-Like Activity of the 20S Proteasome by Intracellular Redox Status: Effects of Glutathione Peroxidase-1 Overexpression and Antioxidant Drugs *384*, 589 – 595

Stohwasser, R., H.-G. Holzhütter, U. Lehmann, P. Henklein and P.-M. Kloetzel
Hepatitis B Virus HBx Peptide 116 – 138 and Proteasome Activator PA28 Compete for Binding to the Proteasome α4/MC6 Subunit *384*, 39 – 49

Protein folding

Guo, Z.-Y., Y.-H. Tang, S. Wang and Y.-M. Feng
Contribution of the Absolutely Conserved B8Gly to the Foldability of Insulin *384*, 805 – 809

Protein phosphatase

Xiang, B., P. Liu, G. Jiang, K. Zou, F. Yi, S. Yang and Q. Wei
The Catalytically Active Domain in the A Subunit of Calcineurin *384*, 1429 – 1434

Protein serine kinase

Angermayr, M., K. Schwerdtfeger and W. Bandlow
A Nucleosome-Free αG-dC-Rich Sequence Element Promotes Constitutive Transcription of the Essential Yeast *RIO1* Gene *384*, 1287 – 1292

Putrescine

Ndjonka, D., A. Da'dara, R.D. Walter and K. Lüersen
Caenorhabditis elegans S-Adenosylmethionine Decarboxylase Is Highly Stimulated by Putrescine But Exhibits a Low Specificity for Activator Binding *384*, 83 – 91

Pyridoxal-5'-phosphate

Messerschmidt, A., M. Worbs, C. Steegborn, M.C. Wahl, R. Huber, B. Laber and T. Clausen
Determinants of Enzymatic Specificity in the Cys-Met-Metabolism PLP-Dependent Enzyme Family: Crystal Structure of Cystathionine γ-Lyase from Yeast and Intrafamiliar Structure Comparison *384*, 373 – 386

Pyroglutamic acid

Schilling, S., S. Manhart, T. Hoffmann, H.-H. Ludwig, C. Wasternack and H.-U. Demuth
Substrate Specificity of Glutaminyl Cyclases from Plants and Animals *384*, 1583 – 1592

Pyruvate dehydrogenase

Liu, X. and H. Bisswanger
Solvent Isotope Effect on the Reaction Catalysed by the Pyruvate Dehydrogenase Complex from *Escherichia coli* *384*, 673 – 679

Quaternary structure

Tolan, D.R., B. Schuler, P.T. Beernink and R. Jaenicke
Thermodynamic Analysis of the Dissociation of the Aldolase Tetramer Substituted at One or Both of the Subunit Interfaces *384*, 1463 – 1471

Reactive oxygen species

Kretz-Remy, C. and A.-P. Arrigo
Modulation of the Chymotrypsin-Like Activity of the 20S Proteasome by Intracellular Redox Status: Effects of Glutathione Peroxidase-1 Overexpression and Antioxidant Drugs *384*, 589 – 595

Missirlis, F., S. Rahlfs, N. Dimopoulos, H. Bauer, K. Becker, A. Hilliker, J.P. Phillips and H. Jäckle
A Putative Glutathione Peroxidase of *Drosophila* Encodes a Thioredoxin Peroxidase That Provides Resistance against Oxidative Stress But Fails to Complement a Lack of Catalase Activity *384*, 463 – 472

Wilkinson, S.R. and J.M. Kelly
The Role of Glutathione Peroxidases in Trypanosomatids *384*, 517 – 525

Receptor, adenosine

Napieralski, R., B. Kempkes and W. Gutensohn
Evidence for Coordinated Induction and Repression of Ecto-5'-Nucleotidase (CD73) and the A2a Adenosine Receptor in a Human B Cell Line *384*, 483 – 487

Receptor, ecdysteroid

Grebe, M., S. Przibilla, V.C. Henrich and M. Spindler-Barth
Characterization of the Ligand-Binding Domain of the Ecdysteroid Receptor from *Drosophila Melanogaster* *384*, 105 – 116

Rymarczyk, G., I. Grad, A. Rusek, K. Oświęcimska-Rusin, A. Niedziela-Majka, M. Kochman and A. Ożyhar
Purification of *Drosophila melanogaster* Ultraspiracle Protein and Analysis of Its A/B Region-Dependent Dimerization Behavior *in vitro* *384*, 59 – 69

Receptor, G protein-coupled

Salahpour, A., H. Bonin, S. Bhalla, U. Petäjä-Repo and M. Bouvier
Biochemical Characterization of β_2-Adrenergic Receptor Dimers and Oligomers *384*, 117 – 123

Receptor, nuclear

Grebe, M., S. Przibilla, V.C. Henrich and M. Spindler-Barth
Characterization of the Ligand-Binding Domain of the Ecdysteroid Receptor from *Drosophila Melanogaster* *384*, 105 – 116

Hentschke, M., C. Schulze, U. Süsens and U. Borgmeyer
Characterization of Calmodulin Binding to the Orphan Nuclear Receptor ERRγ *384*, 473 – 482

Rymarczyk, G., I. Grad, A. Rusek, K. Oświęcimska-Rusin, A. Niedziela-Majka, M. Kochman and A. Ożyhar
Purification of *Drosophila melanogaster* Ultraspiracle Protein and Analysis of Its A/B Region-Dependent Dimerization Behavior *in vitro* *384*, 59 – 69

Respiratory protein

Zeis, B., B. Becher, T. Goldmann, R. Clark, E. Vollmer, B. Bölke, I. Bredebusch, T. Lamkemeyer, O. Pinkhaus, R. Pirow and R.J. Paul
Differential Haemoglobin Gene Expression in the Crustacean *Daphnia magna* Exposed to Different Oxygen Partial Pressures *384*, 1133–1145

Retinoid

Papadimou, E., D. Pavlidou, B. Séraphin, D. Tsambaos and D. Drainas
Retinoids Inhibit Human Epidermal Keratinocyte RNase P Activity *384*, 457–462

Rhodanese

Cereda, A., F. Forlani, S. Iametti, R. Bernhardt, P. Ferranti, G. Picariello, S. Pagani and F. Bonomi
Molecular Recognition between *Azotobacter vinelandii* Rhodanese and a Sulfur Acceptor Protein *384*, 1473–1481

Ribonuclease

Hatano, K.-i., M. Kojima, E.-i. Suzuki, M. Tanokura and K. Takahashi
Determination of the NMR Structure of Gln25-Ribonuclease T_1 *384*, 1173–1183

Moraes, K.C.M., A.J.C. Quaresma, K. Maehnss and J. Kobarg
Identification and Characterization of Proteins That Selectively Interact with Isoforms of the mRNA Binding Protein AUF1 (hnRNP D) *384*, 25–37

Schiffer, S., S. Rösch and A. Marchfelder
Recombinant RNase Z Does Not Recognize CCA as Part of the tRNA and Its Cleavage Efficieny Is Influenced by Acceptor Stem Length *384*, 333–342

Ribosome

Yonath, A.
Ribosomal Tolerance and Peptide Bond Formation *384*, 1411–1419

Ribozyme

Puerta-Fernández, E., A. Barroso-del Jesus, C. Romero-López and A. Berzal-Herranz
HIV-1 TAR as Anchoring Site for Optimized Catalytic RNAs *384*, 343–350

RNA, catalytic

Papadimou, E., D. Pavlidou, B. Séraphin, D. Tsambaos and D. Drainas
Retinoids Inhibit Human Epidermal Keratinocyte RNase P Activity *384*, 457–462

Puerta-Fernández, E., A. Barroso-del Jesus, C. Romero-López and A. Berzal-Herranz
HIV-1 TAR as Anchoring Site for Optimized Catalytic RNAs *384*, 343–350

RNA-protein interaction

Mittag, M. and V. Wagner
The Circadian Clock of the Unicellular Eukaryotic Model Organism *Chlamydomonas reinhardtii* *384*, 689–695

Moraes, K.C.M., A.J.C. Quaresma, K. Maehnss and J. Kobarg
Identification and Characterization of Proteins That Selectively Interact with Isoforms of the mRNA Binding Protein AUF1 (hnRNP D) *384*, 25–37

***S*-Adenosylmethionine decarboxylase**

Ndjonka, D., A. Da'dara, R.D. Walter and K. Lüersen
Caenorhabditis elegans *S*-Adenosylmethionine Decarboxylase Is Highly Stimulated by Putrescine But Exhibits a Low Specificity for Activator Binding *384*, 83–91

Ndjonka, D., Y. Zou, X. Bi, P. Woster, R.D. Walter and K. Lüersen
The Activator-Binding Site of *Onchocerca volvulus* *S*-Adenosylmethionine Decarboxylase, a Potential Drug Target *384*, 1195–1201

Selenoprotein

Mauri, P., L. Benazzi, L. Flohé, M. Maiorino, P.G. Pietta, S.Pilawa, A. Roveri and F. Ursini
Versatility of Selenium Catalysis in PHGPx Unraveled by LC/ESI-MS/MS *384*, 575–588

Moreno, S.G., G. Laux, M. Brielmeier, G.W. Bornkamm and M. Conrad
Testis-Specific Expression of the Nuclear Form of Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPx) *384*, 635–643

Mostert, V., K.E. Hill, C.D. Ferris and R.F. Burk
Selective Induction of Liver Parenchymal Cell Heme Oxygenase-1 in Selenium-Deficient Rats *384*, 681–687

Müller, C., K. Wingler and R. Brigelius-Flohé
3'UTRs of Glutathione Peroxidases Differentially Affect Selenium-Dependent mRNA Stability and Selenocysteine Incorporation Efficiency *384*, 11–18

SELEX

Betat, H., S. Vogel, M. Struhalla, H.-H. Förster, M. Famulok, P. Welzel and U. Hahn
Aptamers That Recognize the Lipid Moiety of the Antibiotic Moenomycin A *384*, 1497–1500

Sequence variants

Tews, B., J. Wilhelm, D. Summerer, M. Strerath, A. Marx, P. Friedhoff, A. Pingoud and M. Hahn
Application of the C4′-Alkylated Deoxyribose Primer System (CAPS) in Allele-Specific Real-Time PCR for Increased Selectivity in Discrimination of Single Nucleotide Sequence Variants *384*, 1533–1541

Serine phosphorylation

Wu, Y., Z. Chen and A. Ullrich
EGFR and FGFR Signaling through FRS2 Is Subject to Negative Feedback Control by ERK1/2 *384*, 1215–1226

Sialate-4-*O*-acetyltransferase

Iwersen, M., H. Dora, G. Kohla, S. Gasa and R. Schauer
Solubilisation and Properties of the Sialate-4-*O*-Acetyltransferase from Guinea Pig Liver *384*, 1035–1047

Sialic acid

Iwersen, M., H. Dora, G. Kohla, S. Gasa and R. Schauer
Solubilisation and Properties of the Sialate-4-*O*-Acetyltransferase from Guinea Pig Liver *384*, 1035–1047

Tiralongo, E., I. Martensen, J. Grötzinger, J. Tiralongo and R. Schauer
Trans-Sialidase-Like Sequences from *Trypanosoma congolense* Conserve Most of the Critical Active Site Residues Found in Other Trans-Sialidases *384*, 1203–1213

Sialidase

Tiralongo, E., I. Martensen, J. Grötzinger, J. Tiralongo and R. Schauer
Trans-Sialidase-Like Sequences from *Trypanosoma congolense* Conserve Most of the Critical Active Site Residues Found in Other Trans-Sialidases *384*, 1203–1213

Signal transduction

Bartsch, M., M. Zorn-Kruppa, N. Kühl, H.-G. Genieser, F. Schwede and B. Jastorff
Bioactivatable, Membrane-Permeant Analogs of Cyclic Nucleotides as Biological Tools for Growth Control of C6 Glioma Cells *384*, 1321 – 1326

Bósze, S., F. Hudecz, P. Igaz, Z. Ortutay, G. Csik, A. Falus and S. Tóth
Interleukin-6 N-Terminal Peptides Modulate the Expression of *jun*B Protooncogene and the Production of Fibrinogen in HepG2 Cells *384*, 409 – 421

Carvalheira, J.B.C , E.B. Ribeiro, F. Folli, L.A. Velloso and M.J.A. Saad
Interaction between Leptin and Insulin Signaling Pathways Differentially Affects JAK-STAT and PI 3 –Kinase-Mediated Signaling in Rat Liver *384*, 151 – 159

Edalat, M., M.A.A. Persson and B. Mannervik
Selective Recognition of Peptide Sequences by Glutathione Transferases: A Possible Mechanism for Modulation of Cellular Stress-Induced Signaling Pathways *384*, 645 – 651

Fliegmann, J., G. Schüler, W. Boland, J. Ebel and A. Mithöfer
The Role of Octadecanoids and Functional Mimics in Soybean Defense Responses *384*, 437 – 446

Huwiler, A. and J. Pfeilschifter
Nitric Oxide Signalling with a Special Focus on Lipid-Derived Mediators *384*, 1379 – 1389

Kleinert, H., P.M. Schwarz and U. Förstermann
Regulation of the Expression of Inducible Nitric Oxide Synthase *384*, 1343 – 1364

Le Page, C. and J. Wietzerbin
Modulation of the Activation of Extracellular Signal-Regulated Kinase (ERK) and the Production of Inflammatory Mediators by ADP-Ribosylation Inhibitors *384*, 1509 – 1513

Liang, O.D., T. Chavakis, M. Linder, K. Bdeir, A. Kuo and K.T. Preissner
Binding of Urokinase Plasminogen Activator to gp130 *via* a Putative Urokinase-Binding Consensus Sequence *384*, 229 – 236

Salahpour, A., H. Bonin, S. Bhalla, U. Petäjä-Repo and M. Bouvier
Biochemical Characterization of β_2-Adrenergic Receptor Dimers and Oligomers *384*, 117 – 123

Wang, H. and G. Reiser
Thrombin Signaling in the Brain: The Role of Protease-Activated Receptors *384*, 193 – 202

Wu, Y., Z. Chen and A. Ullrich
EGFR and FGFR Signaling through FRS2 Is Subject to Negative Feedback Control by ERK1/2 *384*, 1215 – 1226

Single nucleotide polymorphism

Tews, B., J. Wilhelm, D. Summerer, M. Strerath, A. Marx, P. Friedhoff, A. Pingoud and M. Hahn
Application of the C4′-Alkylated Deoxyribose Primer System (CAPS) in Allele-Specific Real-Time PCR for Increased Selectivity in Discrimination of Single Nucleotide Sequence Variants *384*, 1533 – 1541

Sphingolipid

Huwiler, A. and J. Pfeilschifter
Nitric Oxide Signalling with a Special Focus on Lipid-Derived Mediators *384*, 1379 – 1389

Kölzer, M., C. Arenz, K. Ferlinz, N. Werth, H. Schulze, R. Klingenstein and K. Sandhoff
Phosphatidylinositol-3,5 –Bisphosphate Is a Potent and Selective Inhibitor of Acid Sphingomyelinase *384*, 1293 – 1298

Sphingomyelinase

Kölzer, M., C. Arenz, K. Ferlinz, N. Werth, H. Schulze, R. Klingenstein and K. Sandhoff
Phosphatidylinositol-3,5 –Bisphosphate Is a Potent and Selective Inhibitor of Acid Sphingomyelinase *384*, 1293 – 1298

Spin trapping

Stolze, K., N. Udilova, T. Rosenau, A. Hofinger and H. Nohl
Synthesis and Characterization of EMPO-Derived 5,5 –Disubstituted 1 –Pyrroline *N*-Oxides as Spin Traps Forming Exceptionally Stable Superoxide Spin Adducts *384*, 493 – 500

Sporamin

Ng, T.B., S.K. Lam and W.P. Fong
A Homodimeric Sporamin-Type Trypsin Inhibitor with Antiproliferative, HIV Reverse Transcriptase-Inhibitory and Antifungal Activities from Wampee (*Clausena lansium)* Seeds *384*, 289 – 293

Stefin

Bervar, A., I. Zajc, N. Sever, N. Katunuma, B.F. Sloane and T.T. Lah
Invasiveness of Transformed Human Breast Epithelial Cell Lines Is Related to Cathepsin B and Inhibited by Cysteine Proteinase Inhibitors *384*, 447 – 455

Stem cells, adult

Czyz, J., C. Wiese, A. Rolletschek, P. Blyszczuk, M. Cross and A.M. Wobus
Potential of Embryonic and Adult Stem Cells *in vitro 384*, 1391 – 1409

Stem cells, embryonic

Czyz, J., C. Wiese, A. Rolletschek, P. Blyszczuk, M. Cross and A.M. Wobus
Potential of Embryonic and Adult Stem Cells *in vitro 384*, 1391 – 1409

Superoxide

Stolze, K., N. Udilova, T. Rosenau, A. Hofinger and H. Nohl
Synthesis and Characterization of EMPO-Derived 5,5 –Disubstituted 1 –Pyrroline *N*-Oxides as Spin Traps Forming Exceptionally Stable Superoxide Spin Adducts *384*, 493 – 500

Suprachiasmatic nucleus

Biemans, B.A.M., E.A. Van der Zee and S. Daan
Age-Dependent Effects of Conditioning on Cholinergic and Vasopressin Systems in the Rat Suprachiasmatic Nucleus *384*, 729 – 736

Challet, E., I. Caldelas, C. Graff and P. Pévet
Synchronization of the Molecular Clockwork by Light- and Food-Related Cues in Mammals *384*, 711 – 719

Scheer, F.A.J.L., A. Kalsbeek and R.M. Buijs
Cardiovascular Control by the Suprachiasmatic Nucleus: Neural and Neuroendocrine Mechanisms in Human and Rat *384*, 697 – 709

Surface plasmon resonance

Helbig, J.H., B. König, H. Knospe, B. Bubert, C. Yu, C.P. Lück, A. Riboldi-Tunnicliffe, R. Hilgenfeld, E. Jacobs, J. Hacker and G. Fischer
The PPIase Active Site of *Legionella pneumophila* Mip Protein Is Involved in the Infection of Eukaryotic Host Cells *384*, 125 – 137

Synaptosome

Hutter, G., F.L. Heppner and A. Aguzzi
No Superoxide Dismutase Activity of Cellular Prion Protein *in vivo* *384*, 1279 – 1285

TAT basic peptide

Rubio Demirovic, A., J. Canadi, W. Weiglhofer, P. Scheidegger, R. Jaussi and K. Ballmer-Hofer
HIV TAT Basic Peptide Is Not a High-Affinity Ligand for VEGF Receptor 2 *384*, 1435 – 1441

Tetrahydrobiopterin

Wild, C., G. Golderer, P. Gröbner, G. Werner-Felmayer and E.R. Werner
Physarum polycephalum Expresses a Dihydropteridine Reductase with Selectivity for Pterin Substrates with a 6–(1', 2'-Dihydroxypropyl) Substitution *384*, 1057 – 1062

Thioredoxin

Kontou, M., C. Adelfalk, M. Hirsch-Kauffmann and M. Schweiger
Suboptimal Action of NF-κB in Fanconi Anemia Cells Results from Low Levels of Thioredoxin *384*, 1501 – 1507

Kwon, Y.-W., H. Masutani, H. Nakamura, Y. Ishii and J.Yodoi
Redox Regulation of Cell Growth and Cell Death *384*, 991 – 996

Topa quinone

Frébort, I., M. Šebela, S. Hirota, M. Yamada, H. Tamaki, H. Kumagai, O. Adachi and P. Peč
Gene Organization and Molecular Modeling of Copper Amine Oxidase from *Aspergillus niger*: Re-Evaluation of the Cofactor Structure *384*, 1451 – 1461

Transcription

Angermayr, M., K. Schwerdtfeger and W. Bandlow
A Nucleosome-Free dG-dC-Rich Sequence Element Promotes Constitutive Transcription of the Essential Yeast *RIO1* Gene *384*, 1287 – 1292

Boissel, J.-P., M. Zelenka, U. Gödtel-Armbrust, T.J. Feuerstein and U. Förstermann
Transcription of Different Exons 1 of the Human Neuronal Nitric Oxide Synthase Gene Is Dynamically Regulated in a Cell- and Stimulus-Specific Manner *384*, 351 – 362

Fuchs, T. and H. Allgayer
Transcriptional Regulation of the Urokinase Receptor (u-PAR) - A Central Molecule of Invasion and Metastasis *384*, 755 – 761

Hubé, F., P. Reverdiau, S. Iochmann, J. Rollin, C. Cherpi-Antar and Y. Gruel
Transcriptional Silencing of the TFPI-2 Gene by Promoter Hypermethylation in Choriocarcinoma Cells *384*, 1029 – 1034

Kontou, M., C. Adelfalk, M. Hirsch-Kauffmann and M. Schweiger
Suboptimal Action of NF-κB in Fanconi Anemia Cells Results from Low Levels of Thioredoxin *384*, 1501 – 1507

Kröncke, K.-D.
Nitrosative Stress and Transcription *384*, 1365 – 1377

Kwon, J.A. and H.M. Rho
Transcriptional Repression of the Human *p53* Gene by Hepatitis B Viral Core Protein (HBc) in Human Liver Cells *384*, 203 – 212

Mittag, M. and V. Wagner
The Circadian Clock of the Unicellular Eukaryotic Model Organism *Chlamydomonas reinhardtii* *384*, 689 – 695

Steinmüller, L. and G. Thiel
Regulation of Gene Transcription by a Constitutively Active Mutant of Activating Transcription Factor 2 (ATF2) *384*, 667 – 672

Yan, S., D.T. Jane, M.J. Dufresne and B.F. Sloane
Transcription of Cathepsin B in Glioma Cells: Regulation by an E-Box Adjacent to the Transcription Initiation Site *384*, 1421 – 1427

Transcription factor

Gerullis, D., L. Rensing and D. Beyersmann
Heat Shock Treatment Decreases E2F1 –DNA Binding and E2F1 Levels in Human A549 Cells *384*, 161 – 167

He, F., X.-P. Yang, D.K. Srivastava and S.H. Wilson
DNA Polymerase ß Gene Expression: The Promoter Activator CREB-1 Is Upregulated in Chinese Hamster Ovary Cells by DNA Alkylating Agent-Induced Stress *384*, 19 – 23

Hentschke, M., C. Schulze, U. Süsens and U. Borgmeyer
Characterization of Calmodulin Binding to the Orphan Nuclear Receptor ERRγ *384*, 473 – 482

Kim, C.H., J.H. Kim, J. Lee, C.Y. Hsu and Y.S. Ahn
Thiol Antioxidant Reversal of Pyrrolidine Dithiocarbamate-Induced Reciprocal Regulation of AP-1 and NF-κB *384*, 143 – 150

Kleinert, H., P.M. Schwarz and U. Förstermann
Regulation of the Expression of Inducible Nitric Oxide Synthase *384*, 1343 – 1364

Kröncke, K.-D.
Nitrosative Stress and Transcription *384*, 1365 – 1377

Zhang, L., C. Lohmann, R. Prändl and F. Schöffl
Heat Stress-Dependent DNA Binding of *Arabidopsis* Heat Shock Transcription Factor HSF1 to Heat Shock Gene Promoters in *Arabidopsis* Suspension Culture Cells *in vivo* *384*, 959 – 963

Translation

Yonath, A.
Ribosomal Tolerance and Peptide Bond Formation *384*, 1411 – 1419

Translational efficiency

Tan, W.S., M.R. Dyson and K. Murray
Hepatitis B Virus Core Antigen: Enhancement of Its Production in *Escherichia coli*, and Interaction of the Core Particles with the Viral Surface Antigen *384*, 363 – 371

Trichostatin A

Klan, N., S. Seuter, N. Schnur, M. Jung and D. Steinhilber
Trichostatin A and Structurally Related Histone Deacetylase Inhibitors Induce 5–Lipoxygenase Promoter Activity *384*, 777 – 785

tRNA

Papadimou, E., D. Pavlidou, B. Séraphin, D. Tsambaos and D. Drainas
Retinoids Inhibit Human Epidermal Keratinocyte RNase P Activity *384*, 457 – 462

Schiffer, S., S. Rösch and A. Marchfelder
Recombinant RNase Z Does Not Recognize CCA as Part of the tRNA and Its Cleavage Efficieny Is Influenced by Acceptor Stem Length *384*, 333 – 342

Trypanothione

Comini, M., U. Menge and L. Flohé
Biosynthesis of Trypanothione in *Trypanosoma brucei brucei* *384*, 653 – 656

Krauth-Siegel, R.L., S.K. Meiering and H. Schmidt
The Parasite-Specific Trypanothione Metabolism of Trypanosoma and Leishmania *384*, 539 – 549

Wilkinson, S.R. and J.M. Kelly
The Role of Glutathione Peroxidases in Trypanosomatids *384*, 517–525

Tryparedoxin

Budde, H., L. Flohé, H.-J. Hecht, B. Hofmann, M. Stehr, J. Wissing and H. Lünsdorf
Kinetics and Redox-Sensitive Oligomerisation Reveal Negative Subunit Cooperativity in Tryparedoxin Peroxidase of *Trypanosoma brucei brucei 384*, 619–633

Budde, H., L. Flohé, B. Hofmann and M. Nimtz
Verification of the Interaction of a Tryparedoxin Peroxidase with Tryparedoxin by ESI-MS/MS *384*, 1305–1309

Wilkinson, S.R. and J.M. Kelly
The Role of Glutathione Peroxidases in Trypanosomatids *384*, 517–525

Tryptase

Sato, M., S. Yoshida, K. Iida, T. Tomozawa, H. Kido and M. Yamashita
A Novel Influenza A Virus Activating Enzyme from Porcine Lung: Purification and Characterization *384*, 219–227

Selwood, T., K.C. Elrod and N.M. Schechter
Potent Bivalent Inhibition of Human Tryptase-β by a Synthetic Inhibitor *384*, 1605–1612

Tumor necrosis factor

Steinmüller, L. and G. Thiel
Regulation of Gene Transcription by a Constitutively Active Mutant of Activating Transcription Factor 2 (ATF2) *384*, 667–672

Tyrosine phosphorylation

Wu, Y., Z. Chen and A. Ullrich
EGFR and FGFR Signaling through FRS2 Is Subject to Negative Feedback Control by ERK1/2 *384*, 1215–1226

Ultraspiracle protein

Grebe, M., S. Przibilla, V.C. Henrich and M. Spindler-Barth
Characterization of the Ligand-Binding Domain of the Ecdysteroid Receptor from *Drosophila Melanogaster 384*, 105–116

Rymarczyk, G., I. Grad, A. Rusek, K. Oświęcimska-Rusin, A. Niedziela-Majka, M. Kochman and A. Ożyhar
Purification of *Drosophila melanogaster* Ultraspiracle Protein and Analysis of Its A/B Region-Dependent Dimerization Behavior *in vitro 384*, 59–69

Vascular endothelial growth factor receptor (VEGFR)

Rubio Demirovic, A., J. Canadi, W. Weiglhofer, P. Scheidegger, R. Jaussi and K. Ballmer-Hofer
HIV TAT Basic Peptide Is Not a High-Affinity Ligand for VEGF Receptor 2 *384*, 1435–1441

Vitamin A

Papadimou, E., D. Pavlidou, B. Séraphin, D. Tsambaos and D. Drainas
Retinoids Inhibit Human Epidermal Keratinocyte RNase P Activity *384*, 457–462

Vitronectin

Al-Fakhri, N., T. Chavakis, T. Schmidt-Wöll, B. Huang, S.M. Cherian, Y.V. Bobryshev, R.S.A. Lord, N. Katz and K.T. Preissner
Induction of Apoptosis in Vascular Cells by Plasminogen Activator Inhibitor-1 and High Molecular Weight Kininogen Correlates with Their Anti-Adhesive Properties *384*, 423–435

Hapke, S., H. Kessler, B. Luber, A. Benge, P. Hutzler, H. Höfler, M. Schmitt and U. Reuning
Ovarian Cancer Cell Proliferation and Motility Is Induced by Engagement of Integrin $\alpha v\beta 3$/Vitronectin Interaction *384*, 1073–1083